Fernando O Zelaya

List of Publications by Year
in descending order

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115 papers	7,092 citations	70961 41 h-index	62479 80 g-index
127 all docs	127 docs citations	127 times ranked	9560 citing authors

#	Article	IF	Citations
1	Diffraction-like effects in NMR diffusion studies of fluids in porous solids. Nature, 1991, 351, 467-469.	13.7	599
2	Colored noise and computational inference in neurophysiological (fMRI) time series analysis: Resampling methods in time and wavelet domains. Human Brain Mapping, 2001, 12, 61-78.	1.9	571
3	PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans. Nature, 2007, 450, 106-109.	13.7	413
4	A link between FTO, ghrelin, and impaired brain food-cue responsivity. Journal of Clinical Investigation, 2013, 123, 3539-3551.	3.9	307
5	Measuring fMRI reliability with the intra-class correlation coefficient. NeuroImage, 2009, 45, 758-768.	2.1	219
6	Diffusion in porous systems and the influence of pore morphology in pulsed gradient spinâ€echo nuclear magnetic resonance studies. Journal of Chemical Physics, 1992, 97, 651-662.	1.2	198
7	Distinct Roles of Prefrontal Cortical Subregions in the Iowa Gambling Task. Cerebral Cortex, 2009, 19, 1134-1143.	1.6	187
8	The effect of negative emotional context on neural and behavioural responses to oesophageal stimulation. Brain, 2003, 126, 669-684.	3.7	177
9	Neural Correlates of Recall of Life Events in Conversion Disorder. JAMA Psychiatry, 2014, 71, 52.	6.0	165
10	Dopaminergic drug effects on physiological connectivity in a human cortico-striato-thalamic system. Brain, 2003, 126, 1767-1781.	3.7	162
11	A Spatiotemporal Profile of In Vivo Cerebral Blood Flow Changes Following Intranasal Oxytocin in Humans. Biological Psychiatry, 2016, 79, 693-705.	0.7	156
12	Decomposing the Neural Correlates of Antisaccade Eye Movements Using Event-Related fMRI. Cerebral Cortex, 2008, 18, 1148-1159.	1.6	149
13	Motor response suppression and the prepotent tendency to respond: a parametric fMRI study. Neuropsychologia, 2000, 38, 1280-1291.	0.7	141
14	Neural correlates of anxiety associated with obsessive-compulsive symptom dimensions in normal volunteers. Biological Psychiatry, 2003, 53, 482-493.	0.7	136
15	Dehydration affects brain structure and function in healthy adolescents. Human Brain Mapping, 2011, 32, 71-79.	1.9	130
16	Emotion-Motion Interactions in Conversion Disorder: An fMRI Study. PLoS ONE, 2015, 10, e0123273.	1.1	125
17	Circadian and Homeostatic Modulation of Functional Connectivity and Regional Cerebral Blood Flow in Humans under Normal Entrained Conditions. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1493-1499.	2.4	122
18	An evaluation of the time dependence of the anisotropy of the water diffusion tensor in acute human ischemia. Magnetic Resonance Imaging, 1999, 17, 331-348.	1.0	108

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19	Frontal GABA Levels Change during Working Memory. PLoS ONE, 2012, 7, e31933.	1.1	108
20	Neural responses to dynamic expressions of fear in schizophrenia. Neuropsychologia, 2007, 45, 107-123.	0.7	106
21	Resting Hyperperfusion of the Hippocampus, Midbrain, and Basal Ganglia in People at High Risk for Psychosis. American Journal of Psychiatry, 2016, 173, 392-399.	4.0	104
22	Acute effects of singleâ€dose aripiprazole and haloperidol on resting cerebral blood flow (rCBF) in the human brain. Human Brain Mapping, 2013, 34, 272-282.	1.9	97
23	Association of placental perfusion, as assessed by magnetic resonance imaging and uterine artery Doppler ultrasound, and its relationship to pregnancy outcome. Placenta, 2013, 34, 885-891.	0.7	86
24	Probing the Working Memory System in Chronic Fatigue Syndrome: A Functional Magnetic Resonance Imaging Study Using the n-Back Task. Psychosomatic Medicine, 2006, 68, 947-955.	1.3	83
25	The neural correlates of fatigue: an exploratory imaginal fatigue provocation study in chronic fatigue syndrome. Psychological Medicine, 2008, 38, 941-951.	2.7	83
26	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. NeuroImage, 2020, 219, 117031.	2.1	80
27	Cerebral blood flow predicts differential neurotransmitter activity. Scientific Reports, 2018, 8, 4074.	1.6	78
28	Personality factors correlate with regional cerebral perfusion. NeuroImage, 2006, 31, 489-495.	2.1	74
29	Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies. NeuroImage, 2015, 113, 143-152.	2.1	72
30	Increased Resting Hippocampal and Basal Ganglia Perfusion in People at Ultra High Risk for Psychosis: Replication in a Second Cohort. Schizophrenia Bulletin, 2018, 44, 1323-1331.	2.3	70
31	Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach. NeuroImage, 2012, 60, 1015-1024.	2.1	67
32	Molecular tunneling measured by dipole-dipoleâ€“driven nuclear magnetic resonance. Physical Review Letters, 1985, 55, 1794-1796.	2.9	66
33	Alterations in restingâ€state regional cerebral blood flow demonstrate ongoing pain in osteoarthritis: An arterial spinâ€labeled magnetic resonance imaging study. Arthritis and Rheumatism, 2012, 64, 3936-3946.	6.7	64
34	Cerebral regions associated with verbal response initiation, suppression and strategy use. Neuropsychologia, 2000, 38, 1292-1304.	0.7	61
35	Beyond Patient Reported Pain: Perfusion Magnetic Resonance Imaging Demonstrates Reproducible Cerebral Representation of Ongoing Post-Surgical Pain. PLoS ONE, 2011, 6, e17096.	1.1	57
36	Increased cerebral perfusion in adult attention deficit hyperactivity disorder is normalised by stimulant treatment: A non-invasive MRI pilot study. NeuroImage, 2008, 42, 36-41.	2.1	55

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37	Regional cerebral blood flow and FDG uptake in asymptomatic HIV-1 men. Human Brain Mapping, 2013, 34, 2484-2493.	1.9	53
38	Association of placental T2 relaxation times and uterine artery Doppler ultrasound measures of placental blood flow. Placenta, 2013, 34, 474-479.	0.7	52
39	MRI based diffusion and perfusion predictive model to estimate stroke evolution. Magnetic Resonance Imaging, 2001, 19, 1043-1053.	1.0	51
40	Evidence for involvement of the insula in the psychotropic effects of THC in humans: a double-blind, randomized pharmacological MRI study. International Journal of Neuropsychopharmacology, 2011, 14, 1377-1388.	1.0	47
41	Prefrontal GABA levels, hippocampal resting perfusion and the risk of psychosis. Neuropsychopharmacology, 2018, 43, 2652-2659.	2.8	45
42	Practice and Difficulty Evoke Anatomically and Pharmacologically Dissociable Brain Activation Dynamics. Cerebral Cortex, 2003, 13, 144-154.	1.6	44
43	Neural correlates of visuospatial working memory in the â€˜at-risk mental stateâ€™. Psychological Medicine, 2010, 40, 1987-1999.	2.7	43
44	Plasma level-dependent effects of methylphenidate on task-related functional magnetic resonance imaging signal changes. Psychopharmacology, 2005, 180, 624-633.	1.5	41
45	Quantifying the testâ€“retest reliability of cerebral blood flow measurements in a clinical model of on-going post-surgical pain: A study using pseudo-continuous arterial spin labelling. NeuroImage: Clinical, 2013, 3, 301-310.	1.4	41
46	ASAP (Automatic Software for ASL Processing): A toolbox for processing Arterial Spin Labeling images. Magnetic Resonance Imaging, 2016, 34, 334-344.	1.0	40
47	Association of placental volume measured by MRI and birth weight percentile. Journal of Magnetic Resonance Imaging, 2011, 34, 1125-1130.	1.9	38
48	Cerebral analgesic response to nonsteroidal anti-inflammatory drug ibuprofen. Pain, 2015, 156, 1301-1310.	2.0	38
49	The transition from free quantum tunnelling to thermally driven motion of methyl groups. Journal of Physics C: Solid State Physics, 1984, 17, 4413-4420.	1.5	36
50	Effects of antipsychotics on cortisol, interleukin-6 and hippocampal perfusion in healthy volunteers. Schizophrenia Research, 2016, 174, 99-105.	1.1	34
51	Characterisation of nasal devices for delivery of insulin to the brain and evaluation in humans using functional magnetic resonance imaging. Journal of Controlled Release, 2019, 302, 140-147.	4.8	34
52	High resolution high field rodent cardiac imaging with flow enhancement suppression. Magnetic Resonance Imaging, 1994, 12, 1183-1190.	1.0	32
53	Phenomenologically distinct psychotomimetic effects of ketamine are associated with cerebral blood flow changes in functionally relevant cerebral foci: a continuous arterial spin labelling study. Psychopharmacology, 2015, 232, 4515-4524.	1.5	31
54	Increased resting perfusion of the hippocampus in high positive schizotypy: A pseudocontinuous arterial spin labeling study. Human Brain Mapping, 2018, 39, 4055-4064.	1.9	31

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55	Pulsed arterial spin labeling perfusion imaging at 3 T: estimating the number of subjects required in common designs of clinical trials. Magnetic Resonance Imaging, 2011, 29, 1382-1389.	1.0	30
56	Reduced perfusion in Broca's area in developmental stuttering. Human Brain Mapping, 2017, 38, 1865-1874.	1.9	30
57	Increased cerebral blood flow after single dose of antipsychotics in healthy volunteers depends on dopamine D2 receptor density profiles. NeuroImage, 2019, 188, 774-784.	2.1	30
58	Influence of field gradient strength in NMR studies of diffusion in porous media. Magnetic Resonance Imaging, 1991, 9, 663-671.	1.0	29
59	An investigation of regional cerebral blood flow and tissue structure changes after acute administration of antipsychotics in healthy male volunteers. Human Brain Mapping, 2018, 39, 319-331.	1.9	27
60	Oxytocin modulates hippocampal perfusion in people at clinical high risk for psychosis. Neuropsychopharmacology, 2019, 44, 1300-1309.	2.8	26
61	Interactions between hippocampal activity and striatal dopamine in people at clinical high risk for psychosis: relationship to adverse outcomes. Neuropsychopharmacology, 2021, 46, 1468-1474.	2.8	25
62	Multivariate decoding of brain images using ordinal regression. NeuroImage, 2013, 81, 347-357.	2.1	24
63	Hyperperfusion of Frontal White and Subcortical Gray Matter in Autism Spectrum Disorder. Biological Psychiatry, 2019, 85, 584-595.	0.7	24
64	Measurement and Compensation of Field Inhomogeneities Caused by Differences in Magnetic Susceptibility. Journal of Magnetic Resonance Series A, 1995, 115, 131-136.	1.6	23
65	Sample-Induced RF Perturbations in High-Field, High-Resolution NMR Spectroscopy. Journal of Magnetic Resonance, 1997, 126, 39-47.	1.2	23
66	Changes in the hippocampus induced by glucose in thiamin deficient rats detected by MRI. Brain Research, 1998, 791, 347-351.	1.1	23
67	Silent zero TE MR neuroimaging: Current state-of-the-art and future directions. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 123, 73-93.	3.9	23
68	MRI demonstration of impairment of the blood-CSF barrier by glucose administration to the thiamin-deficient rat brain. Magnetic Resonance Imaging, 1995, 13, 555-561.	1.0	22
69	Genetic modulation of neural response during working memory in healthy individuals: interaction of glucocorticoid receptor and dopaminergic genes. Molecular Psychiatry, 2013, 18, 174-182.	4.1	22
70	Application of high field localisedin vivo1H MRS to study biochemical changes in the thiamin deficient rat brain under glucose load. NMR in Biomedicine, 1993, 6, 324-328.	1.6	21
71	Title is missing!. Journal of Physics C: Solid State Physics, 1985, 18, 6457-6462.	1.5	20
72	Observations of diffusion of fluids in porous solids by pulsed field gradient NMR. Colloids and Surfaces, 1989, 36, 221-227.	0.9	20

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73	Resting state cerebral blood flow with arterial spin labeling MRI in developing human brains. European Journal of Paediatric Neurology, 2018, 22, 642-651.	0.7	20
74	Effects of N-acetylcysteine on brain glutamate levels and resting perfusion in schizophrenia. Psychopharmacology, 2018, 235, 3045-3054.	1.5	20
75	Alterations in Functional Connectivity During Different Phases of the Triggered Migraine Attack. Headache, 2020, 60, 1244-1258.	1.8	20
76	Pore-size distributions from NMR spin-lattice relaxation data. Magnetic Resonance Imaging, 1991, 9, 681-685.	1.0	19
77	Modulatory effects of ketamine, risperidone and lamotrigine on resting brain perfusion in healthy human subjects. Psychopharmacology, 2015, 232, 4191-4204.	1.5	19
78	Choroid Plexus Dysfunction: The Initial Event in the Pathogenesis of Wernickeâ€™s Encephalopathy and Ethanol Intoxication. Alcoholism: Clinical and Experimental Research, 2008, 32, 1513-1523.	1.4	18
79	The response to rapid infusion of fentanyl in the human brain measured using pulsed arterial spin labelling. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 163-175.	1.1	18
80	â€œLess is moreâ€• A dose-response account of intranasal oxytocin pharmacodynamics in the human brain. Progress in Neurobiology, 2022, 211, 102239.	2.8	18
81	Ageing diminishes the modulation of human brain responses to visual food cues by meal ingestion. International Journal of Obesity, 2014, 38, 1186-1192.	1.6	17
82	Impaired Awareness of Hypoglycemia Disrupts Blood Flow to Brain Regions Involved in Arousal and Decision Making in Type 1 Diabetes. Diabetes Care, 2019, 42, 2127-2135.	4.3	17
83	Normalizing the Abnormal: Do Antipsychotic Drugs Push the Cortex Into an Unsustainable Metabolic Envelope?. Schizophrenia Bulletin, 2020, 46, 484-495.	2.3	17
84	Localised increase in regional cerebral perfusion in patients with visual snow syndrome: a pseudo-continuous arterial spin labelling study. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 918-926.	0.9	17
85	The effect of field inhomogeneities and molecular diffusion on the NMR transverse relaxation behaviour of polymer melts. Polymer, 1995, 36, 2159-2164.	1.8	16
86	Hypoglycemic thalamic activation in type 1 diabetes is associated with preserved symptoms despite reduced epinephrine. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 787-798.	2.4	14
87	Intranasal insulin administration decreases cerebral blood flow in corticoâ€limbic regions: A neuropharmacological imaging study in normal and overweight males. Diabetes, Obesity and Metabolism, 2021, 23, 175-185.	2.2	14
88	Direct visualisation of B1 inhomogeneity by flip angle dependency. Magnetic Resonance Imaging, 1997, 15, 497-504.	1.0	13
89	In vivo estimation of the flow-driven adiabatic inversion efficiency for continuous arterial spin labeling: A method using phase contrast magnetic resonance angiography. Magnetic Resonance in Medicine, 2006, 55, 1291-1297.	1.9	13
90	Resting-state cerebral blood flow in amygdala is modulated by sex and serotonin transporter genotype. NeuroImage, 2013, 76, 90-97.	2.1	13

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91	Modulation of anterior cingulate cortex reward and penalty signalling in medication-naive young-adult subjects with depressive symptoms following acute dose lurasidone. Psychological Medicine, 2019, 49, 1365-1377.	2.7	13
92	Dopaminergic organization of striatum is linked to cortical activity and brain expression of genes associated with psychiatric illness. Science Advances, 2021, 7, .	4.7	13
93	Neuronal nitric oxide synthase regulates regional brain perfusion in healthy humans. Cardiovascular Research, 2022, 118, 1321-1329.	1.8	11
94	Localized ¹H NMR spectroscopy of rat spinal cord in Vivo. Magnetic Resonance in Medicine, 1996, 35, 443-448.	1.9	10
95	Estimating multivariate similarity between neuroimaging datasets with sparse canonical correlation analysis: an application to perfusion imaging. Frontiers in Neuroscience, 2015, 9, 366.	1.4	10
96	Acute oxytocin effects in inferring othersâ€™ beliefs and social emotions in people at clinical high risk for psychosis. Translational Psychiatry, 2020, 10, 203.	2.4	10
97	Gradient induced artifacts in simultaneous EEG-fMRI: Effect of synchronization on spiral and EPI k-space trajectories. Magnetic Resonance Imaging, 2014, 32, 684-692.	1.0	9
98	Neurochemical effects of oxytocin in people at clinical high risk for psychosis. European Neuropsychopharmacology, 2019, 29, 601-615.	0.3	8
99	Investigating resting brain perfusion abnormalities and disease target-engagement by intranasal oxytocin in women with bulimia nervosa and binge-eating disorder and healthy controls. Translational Psychiatry, 2020, 10, 180.	2.4	8
100	Using arterial spin labeling to examine mood states in youth. Brain and Behavior, 2015, 5, e00339.	1.0	7
101	Revealing the mechanisms behind novel auditory stimuli discrimination: An evaluation of silent functional <scp>MRI</scp> using looping star. Human Brain Mapping, 2021, 42, 2833-2850.	1.9	6
102	Restoration of Hypoglycemia Awareness Alters Brain Activity in Type 1 Diabetes. Diabetes Care, 2021, 44, 533-540.	4.3	6
103	Colored noise and computational inference in fMRI time series analysis: resampling methods in time and wavelet domains. NeuroImage, 2001, 13, 86.	2.1	4
104	Enhancing Sensorimotor Activity by Controlling Virtual Objects with Gaze. PLoS ONE, 2015, 10, e0121562.	1.1	4
105	The effect of risperidone on rewardâ€related brain activity is robust to drugâ€induced vascular changes. Human Brain Mapping, 2021, 42, 2766-2777.	1.9	4
106	Altered functional connectivity during hypoglycaemia in type 1 diabetes. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1451-1462.	2.4	3
107	A completely data-driven method for detecting neuronal activation in FMRI. , 2008, , .		2
108	Relationship between cortical glutamatergic metabolite levels and hippocampal activity in schizotypy. Schizophrenia Research, 2022, 240, 132-134.	1.1	2

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109	O12.7. TREATMENT WITH CANNABIDIOL REDUCES RESTING STATE PERFUSION IN INDIVIDUALS AT CLINICAL HIGH RISK FOR PSYCHOSIS. Schizophrenia Bulletin, 2019, 45, S200-S200.	2.3	1
110	Areas of cerebral blood flow changes on arterial spin labelling with the use of symmetric template during nitroglycerin triggered cluster headache attacks. NeuroImage: Clinical, 2022, 33, 102920.	1.4	1
111	Data-driven fMRI group classification using connected components and Gaussian process classifiers. , 2011, , .		0
112	S146. EFFECT OF CLOZAPINE ON REGIONAL CEREBRAL BLOOD FLOW IN TREATMENT-RESISTANT SCHIZOPHRENIA. Schizophrenia Bulletin, 2018, 44, S382-S382.	2.3	0
113	O3.7. EFFECT OF N-ACETYLCYSTEINE ON BRAIN GLUTAMATE LEVELS AND RESTING PERFUSION IN SCHIZOPHRENIA. Schizophrenia Bulletin, 2018, 44, S81-S82.	2.3	0
114	T139. OXYTOCIN ENHANCES NEURAL EFFICIENCY IN INFERRING OTHERSâ€™ SOCIAL EMOTIONS IN PEOPLE AT CLINICAL HIGH RISK FOR PSYCHOSIS. Schizophrenia Bulletin, 2020, 46, S283-S284.	2.3	0
115	M18. REDUCED CORTICAL CEREBRAL BLOOD FLOW IN FIRST EPISODE PSYCHOSIS PATIENTS. Schizophrenia Bulletin, 2020, 46, S140-S140.	2.3	0