

# Blaise deB Frederick

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	3,284 citations	35 h-index	56 g-index
99 ext. papers	3,861 ext. citations	4.4 avg, IF	5.23 L-index

#	Paper	IF	Citations
89	Brain reactivity to smoking cues prior to smoking cessation predicts ability to maintain tobacco abstinence. <i>Biological Psychiatry</i> , <b>2010</b> , 67, 722-9	7.9	329
88	Choline, myo-inositol and mood in bipolar disorder: a proton magnetic resonance spectroscopic imaging study of the anterior cingulate cortex. <i>Bipolar Disorders</i> , <b>2000</b> , 2, 207-16	3.8	153
87	Time lag dependent multimodal processing of concurrent fMRI and near-infrared spectroscopy (NIRS) data suggests a global circulatory origin for low-frequency oscillation signals in human brain. <i>NeuroImage</i> , <b>2010</b> , 53, 553-64	7.9	138
86	Chemosensory cues to conspecific emotional stress activate amygdala in humans. <i>PLoS ONE</i> , <b>2009</b> , 4, e6415	3.7	132
85	Functional neuroimaging of reward circuitry responsivity to monetary gains and losses in posttraumatic stress disorder. <i>Biological Psychiatry</i> , <b>2009</b> , 66, 1083-90	7.9	121
84	Multinuclear magnetic resonance spectroscopy studies of brain purines in major depression. <i>American Journal of Psychiatry</i> , <b>2001</b> , 158, 2048-55	11.9	107
83	In vivo detection of GABA in human brain using a localized double-quantum filter technique. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 366-71	4.4	106
82	Prefrontal and limbic resting state brain network functional connectivity differs between nicotine-dependent smokers and non-smoking controls. <i>Drug and Alcohol Dependence</i> , <b>2012</b> , 125, 252-9	4.9	95
81	GABAergic neuroactive steroids and resting-state functional connectivity in postpartum depression: a preliminary study. <i>Journal of Psychiatric Research</i> , <b>2013</b> , 47, 816-28	5.2	87
80	Decoupled automated rotational and translational registration for functional MRI time series data: the DART registration algorithm. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 131-9	4.4	86
79	Grey and white matter GABA level differences in the human brain using two-dimensional, J-resolved spectroscopic imaging. <i>NMR in Biomedicine</i> , <b>2005</b> , 18, 570-6	4.4	83
78	Cerebellar vermis involvement in cocaine-related behaviors. <i>Neuropsychopharmacology</i> , <b>2006</b> , 31, 1318-26	7.9	79
77	Glutamine and glutamate levels in children and adolescents with bipolar disorder: a 4.0-T proton magnetic resonance spectroscopy study of the anterior cingulate cortex. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , <b>2007</b> , 46, 524-34	7.2	79
76	Influence of baseline hematocrit and hemodilution on BOLD fMRI activation. <i>Magnetic Resonance Imaging</i> , <b>2001</b> , 19, 1055-62	3.3	70
75	Partitioning of physiological noise signals in the brain with concurrent near-infrared spectroscopy and fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 2352-62	7.3	64
74	Low-frequency oscillations measured in the periphery with near-infrared spectroscopy are strongly correlated with blood oxygen level-dependent functional magnetic resonance imaging signals. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 106004	3.5	63
73	Hippocampal Volume, PTSD, and Alcoholism in Combat Veterans. <i>American Journal of Psychiatry</i> , <b>2006</b> , 163, 674-681	11.9	61

72	Perfusion information extracted from resting state functional magnetic resonance imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2017</b> , 37, 564-576	7.3	53
71	Evaluating the effects of systemic low frequency oscillations measured in the periphery on the independent component analysis results of resting state networks. <i>NeuroImage</i> , <b>2013</b> , 76, 202-15	7.9	53
70	Correcting for Blood Arrival Time in Global Mean Regression Enhances Functional Connectivity Analysis of Resting State fMRI-BOLD Signals. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 311	3.3	53
69	Brain fMRI reactivity to smoking-related images before and during extended smoking abstinence. <i>Experimental and Clinical Psychopharmacology</i> , <b>2009</b> , 17, 365-73	3.2	51
68	Low Frequency Systemic Hemodynamic "Noise" in Resting State BOLD fMRI: Characteristics, Causes, Implications, Mitigation Strategies, and Applications. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 787	5.1	49
67	Studying the Spatial Distribution of Physiological Effects on BOLD Signals Using Ultrafast fMRI. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 196	3.3	49
66	Physiological denoising of BOLD fMRI data using Regressor Interpolation at Progressive Time Delays (RIPTiDe) processing of concurrent fMRI and near-infrared spectroscopy (NIRS). <i>NeuroImage</i> , <b>2012</b> , 60, 1913-23	7.9	49
65	Concurrent fNIRS and fMRI processing allows independent visualization of the propagation of pressure waves and bulk blood flow in the cerebral vasculature. <i>NeuroImage</i> , <b>2012</b> , 61, 1419-27	7.9	49
64	Spatially weighted BOLD signal for comparison of functional magnetic resonance imaging and near-infrared imaging of the brain. <i>NeuroImage</i> , <b>2006</b> , 33, 505-14	7.9	45
63	Two-dimensional, J-resolved spectroscopic imaging of GABA at 4 Tesla in the human brain. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 783-8	4.4	43
62	Can apparent resting state connectivity arise from systemic fluctuations?. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 285	3.3	40
61	In vivo proton magnetic resonance spectroscopy of the temporal lobe in Alzheimer's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2004</b> , 28, 1313-22	5.5	40
60	Association between CHRNA5 genetic variation at rs16969968 and brain reactivity to smoking images in nicotine dependent women. <i>Drug and Alcohol Dependence</i> , <b>2012</b> , 120, 7-13	4.9	39
59	Sex differences in response to red and blue light in human primary visual cortex: a bold fMRI study. <i>Psychiatry Research - Neuroimaging</i> , <b>2000</b> , 100, 129-38	2.9	39
58	Time delay processing of hypercapnic fMRI allows quantitative parameterization of cerebrovascular reactivity and blood flow delays. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 1767-1779	7.3	38
57	Automated Processing of fNIRS Data-A Visual Guide to the Pitfalls and Consequences. <i>Algorithms</i> , <b>2018</b> , 11,	1.8	37
56	The resting-state fMRI arterial signal predicts differential blood transit time through the brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 1148-1160	7.3	37
55	Hippocampal volume, PTSD, and alcoholism in combat veterans. <i>American Journal of Psychiatry</i> , <b>2006</b> , 163, 674-81	11.9	35

54	Tracking cerebral blood flow in BOLD fMRI using recursively generated regressors. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 5471-85	5.9	34
53	In vivo detection of brain glycine with echo-time-averaged (1)H magnetic resonance spectroscopy at 4.0 T. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 681-6	4.4	32
52	In vivo proton magnetic resonance spectroscopy of Alzheimer's disease in the parietal and temporal lobes. <i>Biological Psychiatry</i> , <b>1997</b> , 42, 147-50	7.9	31
51	Resting-state functional connectivity, cortical GABA, and neuroactive steroids in peripartum and peripartum depressed women: a functional magnetic resonance imaging and spectroscopy study. <i>Neuropsychopharmacology</i> , <b>2019</b> , 44, 546-554	8.7	31
50	An improved method for mapping cerebrovascular reserve using concurrent fMRI and near-infrared spectroscopy with Regressor Interpolation at Progressive Time Delays (RIPTiDe). <i>NeuroImage</i> , <b>2011</b> , 56, 2047-57	7.9	30
49	An increase in tobacco craving is associated with enhanced medial prefrontal cortex network coupling. <i>PLoS ONE</i> , <b>2014</b> , 9, e88228	3.7	26
48	Brain Proton Magnetic Resonance Spectroscopy in Alzheimer Disease: Changes After Treatment With Xanomeline. <i>American Journal of Geriatric Psychiatry</i> , <b>2002</b> , 10, 81-88	6.5	25
47	Memory retrieval of smoking-related images induce greater insula activation as revealed by an fMRI-based delayed matching to sample task. <i>Addiction Biology</i> , <b>2015</b> , 20, 349-56	4.6	24
46	Activation of suprachiasmatic nuclei and primary visual cortex depends upon time of day. <i>European Journal of Neuroscience</i> , <b>2009</b> , 29, 399-410	3.5	23
45	MDMA use is associated with increased spatial BOLD fMRI visual cortex activation in human MDMA users. <i>Pharmacology Biochemistry and Behavior</i> , <b>2006</b> , 84, 219-28	3.9	23
44	Short repetition time multiband echo-planar imaging with simultaneous pulse recording allows dynamic imaging of the cardiac pulsation signal. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1268-76	4.4	22
43	Topiramate raises anterior cingulate cortex glutamine levels in healthy men; a 4.0 T magnetic resonance spectroscopy study. <i>Psychopharmacology</i> , <b>2006</b> , 188, 236-43	4.7	21
42	Perspective: Prospects of non-invasive sensing of the human brain with diffuse optical imaging. <i>APL Photonics</i> , <b>2018</b> , 3,	5.2	19
41	GABA levels in the dorsal anterior cingulate cortex associated with difficulty ignoring smoking-related cues in tobacco-dependent volunteers. <i>Neuropsychopharmacology</i> , <b>2013</b> , 38, 1113-20	8.7	18
40	Selective serotonin reuptake inhibitor discontinuation syndrome is associated with a rostral anterior cingulate choline metabolite decrease: a proton magnetic resonance spectroscopic imaging study. <i>Biological Psychiatry</i> , <b>2003</b> , 54, 534-9	7.9	18
39	Systemic Low-Frequency Oscillations in BOLD Signal Vary with Tissue Type. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 313	5.1	18
38	Brain biochemistry using magnetic resonance spectroscopy: relevance to psychiatric illness in the elderly. <i>Journal of Geriatric Psychiatry and Neurology</i> , <b>1999</b> , 12, 107-17	3.8	17
37	Isolating the sources of widespread physiological fluctuations in functional near-infrared spectroscopy signals. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 106005	3.5	16

36	Brain, skull, and cerebrospinal fluid volumes in adult posttraumatic stress disorder. <i>Journal of Traumatic Stress</i> , <b>2007</b> , 20, 763-74	3.8	16
35	Proton magnetic resonance spectroscopy of human basal ganglia: response to cocaine administration. <i>Biological Psychiatry</i> , <b>2000</b> , 48, 685-92	7.9	15
34	Extraction of the cardiac waveform from simultaneous multislice fMRI data using slice sorted averaging and a deep learning reconstruction filter. <i>NeuroImage</i> , <b>2019</b> , 198, 303-316	7.9	13
33	Magnetic resonance spectroscopy for measuring the biodistribution and in situ in vivo pharmacokinetics of fluorinated compounds: validation using an investigation of liver and heart disposition of tecastemizole. <i>Journal of Clinical Pharmacy and Therapeutics</i> , <b>2006</b> , 31, 261-73	2.2	13
32	Clinical Use of Cerebrovascular Compliance Imaging to Evaluate Revascularization in Patients With Moyamoya. <i>Neurosurgery</i> , <b>2019</b> , 84, 261-271	3.2	12
31	Brain changes to hypocapnia using rapidly interleaved phosphorus-proton magnetic resonance spectroscopy at 4 T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 646-53	7.3	11
30	Dynamic functioning of transient resting-state coactivation networks in the Human Connectome Project. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 373-387	5.9	11
29	Impact of vessel wall lesions and vascular stenoses on cerebrovascular reactivity in patients with intracranial stenotic disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 1167-1176	5.6	10
28	Denoising of neuronal signal from mixed systemic low-frequency oscillation using peripheral measurement as noise regressor in near-infrared imaging. <i>Neurophotonics</i> , <b>2019</b> , 6, 015001	3.9	10
27	Voluntary switching between identities in dissociative identity disorder: A functional MRI case study. <i>Cognitive Neuroscience</i> , <b>2012</b> , 3, 112-9	1.7	9
26	Craving and Cue Reactivity in Nicotine-Dependent Tobacco Smokers Is Associated With Different Insula Networks. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2020</b> , 5, 76-83	3.4	8
25	A method for conducting functional MRI studies in alert nonhuman primates: initial results with opioid agonists in male cynomolgus monkeys. <i>Experimental and Clinical Psychopharmacology</i> , <b>2013</b> , 21, 323-31	3.2	7
24	An MR-compatible device for delivering smoked marijuana during functional imaging. <i>Pharmacology Biochemistry and Behavior</i> , <b>2007</b> , 87, 81-9	3.9	7
23	Nicotine content and abstinence state have different effects on subjective ratings of positive versus negative reinforcement from smoking. <i>Pharmacology Biochemistry and Behavior</i> , <b>2013</b> , 103, 710-6	3.9	6
22	Systemic low-frequency oscillations observed in the periphery of healthy human subjects. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-11	3.5	6
21	Snowball ICA: A Model Order Free Independent Component Analysis Strategy for Functional Magnetic Resonance Imaging Data. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 569657	5.1	6
20	Vascular effects of caffeine found in BOLD fMRI. <i>Journal of Neuroscience Research</i> , <b>2019</b> , 97, 456-466	4.4	6
19	The Neural Correlates of Vertical Splitting in a Single Case Study. <i>Neuropsychanalysis</i> , <b>2012</b> , 14, 157-163	3.8	4

18	Differential effects of D-amphetamine on red and blue light-induced photic activation: A novel BOLD fMRI assay of human dopamine function. <i>Synapse</i> , <b>2008</b> , 62, 268-72	2.4	4
17	NMR determination of myocardial pH in vivo: separation of tissue inorganic phosphate from blood 2,3-DPG. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 17, 368-78	4.4	4
16	Second-Hand Stress: Neurobiological Evidence for a Human Alarm Pheromone. <i>Nature Precedings</i> , <b>2008</b> ,		3
15	NAA-weighted imaging of the human brain using a conventional readout gradient. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 187-92	4.4	3
14	Temporal Dynamics of Large-Scale Networks Predict Neural Cue Reactivity and Cue-Induced Craving. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , <b>2020</b> , 5, 1011-1018	3.4	3
13	Default Mode Network Functional Reorganization During Early Abstinence in Polysubstance-Using Emerging Adults Treated for Opioid Dependence. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , <b>2016</b> , 28, 325-327	2.7	2
12	Greater sensitivity of the cortical face processing system to perceptually-equated face detection. <i>Brain Research</i> , <b>2016</b> , 1631, 13-21	3.7	2
11	Design and validation of an improved nonferrous smoking device for self-administration of smoked drugs with concurrent fMRI neuroimaging. <i>Clinical EEG and Neuroscience</i> , <b>2009</b> , 40, 21-30	2.3	2
10	Asymmetry of peripheral vascular biomarkers in ischemic stroke patients, assessed using NIRS. <i>Journal of Biomedical Optics</i> , <b>2020</b> , 25, 1-16	3.5	2
9	Consistency of independent component analysis for fMRI. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 351, 109013	3	2
8	A low-cost multichannel NIRS oximeter for monitoring systemic low-frequency oscillations. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15629-15641	4.8	1
7	Optimized multimodal functional magnetic resonance imaging/near-infrared spectroscopy probe for ultrahigh-resolution mapping. <i>Neurophotonics</i> , <b>2015</b> , 2, 045004	3.9	1
6	An MRI protocol for anatomical and functional evaluation of the California sea lion brain. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 353, 109097	3	1
5	Post-hoc physiological waveform extraction from motion estimation in simultaneous multislice (SMS) functional MRI using separate stack processing. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 309-315	4.4	1
4	Sex differences in functional network dynamics observed using coactivation pattern analysis. <i>Cognitive Neuroscience</i> , <b>2021</b> , 12, 120-130	1.7	0
3	Using carpet plots to analyze transit times of low frequency oscillations in resting state fMRI. <i>Scientific Reports</i> , <b>2021</b> , 11, 7011	4.9	0
2	The Alignment of Systemic Low Frequency Oscillations with V1 Retinotopic Organization. <i>Journal of Vision</i> , <b>2019</b> , 19, 79	0.4	
1	Nicotine acutely alters temporal properties of resting brain states. <i>Drug and Alcohol Dependence</i> , <b>2021</b> , 226, 108846	4.9	

