Masaki Fukunaga

List of Publications by Year
in descending order

134	10,965	57758 44	36028 97
papers	citations	h-index	g-index

147	147	147	14022
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
2	Decoupling of the brain's default mode network during deep sleep. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11376-11381.	7.1	627
3	Cortical Brain Abnormalities in 4474 Individuals With Schizophrenia and 5098 Control Subjects via the Enhancing Neuro Imaging Genetics Through Meta Analysis (ENIGMA) Consortium. Biological Psychiatry, 2018, 84, 644-654.	1.3	627
4	High-field MRI of brain cortical substructure based on signal phase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11796-11801.	7.1	610
5	Widespread white matter microstructural differences in schizophrenia across 4322 individuals: results from the ENIGMA Schizophrenia DTI Working Group. Molecular Psychiatry, 2018, 23, 1261-1269.	7.9	522
6	Low frequency BOLD fluctuations during resting wakefulness and light sleep: A simultaneous EEG-fMRI study. Human Brain Mapping, 2008, 29, 671-682.	3.6	521
7	Low-frequency fluctuations in the cardiac rate as a source of variance in the resting-state fMRI BOLD signal. NeuroImage, 2007, 38, 306-320.	4.2	508
8	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	12.6	450
9	Layer-specific variation of iron content in cerebral cortex as a source of MRI contrast. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3834-3839.	7.1	377
10	Large-amplitude, spatially correlated fluctuations in BOLD fMRI signals during extended rest and early sleep stages. Magnetic Resonance Imaging, 2006, 24, 979-992.	1.8	326
11	Abnormal asymmetries in subcortical brain volume in schizophrenia. Molecular Psychiatry, 2016, 21, 1460-1466.	7.9	300
12	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	12.8	250
13	Sensitivity of MRI resonance frequency to the orientation of brain tissue microstructure. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5130-5135.	7.1	238
14	Sources of functional magnetic resonance imaging signal fluctuations in the human brain at rest: a 7 T study. Magnetic Resonance Imaging, 2009, 27, 1019-1029.	1.8	213
15	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	14.8	213
16	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. Nature Neuroscience, 2016, 19, 420-431.	14.8	204
17	The contribution of myelin to magnetic susceptibility-weighted contrasts in high-field MRI of the brain. NeuroImage, 2012, 59, 3967-3975.	4.2	186
18	White matter microstructural alterations across four major psychiatric disorders: mega-analysis study in 2937 individuals. Molecular Psychiatry, 2020, 25, 883-895.	7.9	170

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19	Modulation of spontaneous fMRI activity in human visual cortex by behavioral state. NeuroImage, 2009, 45, 160-168.	4.2	169
20	Activations in Visual and Attention-Related Areas Predict and Correlate with the Degree of Perceptual Learning. Journal of Neuroscience, 2007, 27, 11401-11411.	3.6	148
21	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. Brain Imaging and Behavior, 2017, 11, 1497-1514.	2.1	144
22	Large-scale spontaneous fluctuations and correlations in brain electrical activity observed with magnetoencephalography. NeuroImage, 2010, 51, 102-111.	4.2	142
23	Dynamic activityâ€induced manganeseâ€dependent contrast magnetic resonance imaging (DAIM MRI). Magnetic Resonance in Medicine, 2002, 48, 927-933.	3.0	126
24	Prefrontal cortical thinning links to negative symptoms in schizophrenia via the ENIGMA consortium. Psychological Medicine, 2018, 48, 82-94.	4.5	121
25	Rhythmic alternating patterns of brain activity distinguish rapid eye movement sleep from other states of consciousness. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10300-10305.	7.1	113
26	Temporal dynamics of the BOLD fMRI impulse response. NeuroImage, 2005, 24, 667-677.	4.2	110
27	Hemorrhagic and nonhemorrhagic stroke: diagnosis with diffusion-weighted and T2-weighted echo-planar MR imaging.. Radiology, 1997, 203, 823-828.	7.3	100
28	Metabolic Origin of Bold Signal Fluctuations in the Absence of Stimuli. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1377-1387.	4.3	93
29	An adaptive filter for suppression of cardiac and respiratory noise in MRI time series data. NeuroImage, 2006, 33, 1072-1081.	4.2	92
30	Whole-exome sequencing and neurite outgrowth analysis in autism spectrum disorder. Journal of Human Genetics, 2016, 61, 199-206.	2.3	91
31	Functional imaging of gustatory perception and imagery: â€œtop-downâ€•processing of gustatory signals. NeuroImage, 2004, 23, 1271-1282.	4.2	82
32	Negative BOLD-fMRI Signals in Large Cerebral Veins. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 401-412.	4.3	80
33	Positive symptoms associate with cortical thinning in the superior temporal gyrus via the ENIGMA Schizophrenia consortium. Acta Psychiatrica Scandinavica, 2017, 135, 439-447.	4.5	80
34	Decreased Connectivity between the Thalamus and the Neocortex during Human Nonrapid Eye Movement Sleep. Sleep, 2014, 37, 387-397.	1.1	72
35	Hunting for neuronal currents: absence of rapid MRI signal changes during visual-evoked response. NeuroImage, 2004, 23, 1059-1067.	4.2	71
36	Role of subcortical structures on cognitive and social function in schizophrenia. Scientific Reports, 2018, 8, 1183.	3.3	70

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37	Glutamate Networks Implicate Cognitive Impairments in Schizophrenia: Genome-Wide Association Studies of 52 Cognitive Phenotypes. Schizophrenia Bulletin, 2015, 41, 909-918.	4.3	65
38	On the contribution of deoxy-hemoglobin to MRI grayâ€“white matter phase contrast at high field. NeuroImage, 2010, 49, 193-198.	4.2	61
39	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. Nature Communications, 2020, 11, 4796.	12.8	61
40	Short-term and long-term outcomes of single-incision versus multi-incision laparoscopic resection for colorectal cancer: a propensity-score-matched analysis of 214 cases. Surgical Endoscopy and Other Interventional Techniques, 2016, 30, 1317-1325.	2.4	59
41	Respiratory modulation of cognitive performance during the retrieval process. PLoS ONE, 2018, 13, e0204021.	2.5	57
42	Infraslow EEG oscillations organize large-scale corticalâ€“subcortical interactions during sleep: A combined EEG/fMRI study. Brain Research, 2011, 1374, 63-72.	2.2	54
43	Association of Copy Number Variation of the 15q11.2 BP1-BP2 Region With Cortical and Subcortical Morphology and Cognition. JAMA Psychiatry, 2020, 77, 420.	11.0	54
44	Hemodynamic nonlinearities affect BOLD fMRI response timing and amplitude. NeuroImage, 2009, 47, 1649-1658.	4.2	52
45	Estimated cognitive decline in patients with schizophrenia: A multicenter study. Psychiatry and Clinical Neurosciences, 2017, 71, 294-300.	1.8	51
46	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. Molecular Psychiatry, 2020, 25, 584-602.	7.9	49
47	fMRI differences between early and late stage-1 sleep. Neuroscience Letters, 2008, 441, 81-85.	2.1	48
48	Neuromelanin Magnetic Resonance Imaging Reveals Increased Dopaminergic Neuron Activity in the Substantia Nigra of Patients with Schizophrenia. PLoS ONE, 2014, 9, e104619.	2.5	48
49	Role of frontal white matter and corpus callosum on social function in schizophrenia. Schizophrenia Research, 2018, 202, 180-187.	2.0	48
50	Making the most of fMRI at 7ÂT by suppressing spontaneous signal fluctuations. NeuroImage, 2009, 44, 448-454.	4.2	46
51	Brain morphological and functional features in cognitive subgroups of schizophrenia. Psychiatry and Clinical Neurosciences, 2020, 74, 191-203.	1.8	46
52	Ï‡-separation: Magnetic susceptibility source separation toward iron and myelin mapping in the brain. NeuroImage, 2021, 240, 118371.	4.2	46
53	Detection of the anoxic depolarization of focal ischemia using manganese-enhanced MRI. Magnetic Resonance in Medicine, 2003, 50, 7-12.	3.0	44
54	The impact of the genome-wide supported variant in the cyclin M2 gene on gray matter morphology in schizophrenia. Behavioral and Brain Functions, 2013, 9, 40.	3.3	42

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55	The effect of duration of illness and antipsychotics on subcortical volumes in schizophrenia: Analysis of 778 subjects. NeuroImage: Clinical, 2018, 17, 563-569.	2.7	39
56	Laparoscopic Surgery for Left Paraduodenal Hernia. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2004, 14, 111-115.	1.0	37
57	Imaging Genetics and Psychiatric Disorders. Current Molecular Medicine, 2015, 15, 168-175.	1.3	36
58	Subcortical association with memory performance in schizophrenia: a structural magnetic resonance imaging study. Translational Psychiatry, 2018, 8, 20.	4.8	36
59	Laparoscopy-Assisted Low Anterior Resection with a Prolapsing Technique for Low Rectal Cancer. Surgery Today, 2005, 35, 598-602.	1.5	34
60	Brain/MINDS beyond human brain MRI project: A protocol for multi-level harmonization across brain disorders throughout the lifespan. NeuroImage: Clinical, 2021, 30, 102600.	2.7	34
61	An integrated eye movement score as a neurophysiological marker of schizophrenia. Schizophrenia Research, 2014, 160, 228-229.	2.0	30
62	Effects of copy number variations on brain structure and risk for psychiatric illness: Largeâ€scale studies from the<scp>ENIGMA</scp>working groups on<scp>CNVs</scp>. Human Brain Mapping, 2022, 43, 300-328.	3.6	30
63	Reducing correlated noise in fMRI data. Magnetic Resonance in Medicine, 2008, 59, 939-945.	3.0	28
64	Association between the superior longitudinal fasciculus and perceptual organization and working memory: A diffusion tensor imaging study. Neuroscience Letters, 2020, 738, 135349.	2.1	28
65	Toward a Common Circle: Interhemispheric Contextual Modulation in Human Early Visual Areas. Journal of Neuroscience, 2006, 26, 8804-8809.	3.6	27
66	Differentiation of schizophrenia using structural MRI with consideration of scanner differences: A realâ€world multisite study. Psychiatry and Clinical Neurosciences, 2020, 74, 56-63.	1.8	27
67	Neuroimaging studies within Cognitive Genetics Collaborative Research Organization aiming to replicate and extend works of ENIGMA. Human Brain Mapping, 2020, , .	3.6	26
68	Interindividual and interspecies variations of the extrastriate visual cortex. NeuroReport, 2003, 14, 1579-1583.	1.2	24
69	Somatotopic Representation of Acupoints in Human Primary Somatosensory Cortex: An fMRI Study. Magnetic Resonance in Medical Sciences, 2005, 4, 187-189.	2.0	24
70	1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. Translational Psychiatry, 2021, 11, 182.	4.8	24
71	Hippocampal cells encode places by forming small anatomical clusters. Neuroscience, 2010, 166, 994-1007.	2.3	23
72	MR Contrast in Mouse Lymph Nodes with Subcutaneous Administration of Iron Oxide Particles: Size Dependency. Magnetic Resonance in Medical Sciences, 2011, 10, 219-227.	2.0	23

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73	Genetic risk variants of schizophrenia associated with left superior temporal gyrus volume. Cortex, 2014, 58, 23-26.	2.4	22
74	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. Neuron, 2022, 110, 16-20.	8.1	22
75	Cognitive control affects motor learning through local variations in GABA within the primary motor cortex. Scientific Reports, 2021, 11, 18566.	3.3	19
76	Non-invasive Measurement of Brain Activity Using Functional MRI: Toward the Study of Brain Response to Acupuncture Stimulation. The American Journal of Chinese Medicine, 1995, 23, 319-325.	3.8	18
77	Common variants at 1p36 are associated with superior frontal gyrus volume. Translational Psychiatry, 2014, 4, e472-e472.	4.8	18
78	An overlapping pattern of cerebral cortical thinning is associated with both positive symptoms and aggression in schizophrenia via the ENIGMA consortium. Psychological Medicine, 2020, 50, 2034-2045.	4.5	18
79	Polygenetic components for schizophrenia, bipolar disorder and rheumatoid arthritis predict risk of schizophrenia. Schizophrenia Research, 2016, 175, 226-229.	2.0	17
80	Advances in gradient echo myelin water imaging at 3T and 7T. NeuroImage, 2019, 188, 835-844.	4.2	17
81	Plasma Levels of Soluble Tumor Necrosis Factor Receptor 2 (sTNFR2) Are Associated with Hippocampal Volume and Cognitive Performance in Patients with Schizophrenia. International Journal of Neuropsychopharmacology, 2018, 21, 631-639.	2.1	16
82	Polygenic Architecture of Human Neuroanatomical Diversity. Cerebral Cortex, 2020, 30, 2307-2320.	2.9	16
83	Promoter Activity-Based Case-Control Association Study on SLC6A4 Highlighting Hypermethylation and Altered Amygdala Volume in Male Patients With Schizophrenia. Schizophrenia Bulletin, 2020, 46, 1577-1586.	4.3	15
84	Plasma levels of matrix metalloproteinaseâ€9 (MMPâ€9) are associated with cognitive performance in patients with schizophrenia. Neuropsychopharmacology Reports, 2020, 40, 150-156.	2.3	15
85	Quantitative Evaluations of Geometrical Distortion Corrections in Cortical <scp>Surfaceâ€Based</scp> Analysis of <scp>Highâ€Resolution</scp> Functional <scp>MRI</scp> Data at 7T. Journal of Magnetic Resonance Imaging, 2021, 53, 1220-1234.	3.4	15
86	Optimizing brain tissue contrast with EPI: A simulated annealing approach. Magnetic Resonance in Medicine, 2005, 54, 373-385.	3.0	14
87	Inconsistency and uncertainty of the human visual area loci following surfaceâ€based registration: Probability and Entropy Maps. Human Brain Mapping, 2012, 33, 121-129.	3.6	13
88	Eyeâ€movement characteristics of schizophrenia and their association with cortical thickness. Psychiatry and Clinical Neurosciences, 2019, 73, 508-509.	1.8	13
89	Improving contrast to noise ratio of resonance frequency contrast images (phase images) using balanced steady-state free precession. NeuroImage, 2011, 54, 2779-2788.	4.2	12
90	Comparison of 3T and 7T MRI for the visualization of globus pallidus sub-segments. Scientific Reports, 2019, 9, 18357.	3.3	12

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91	Candesartan prevents arteriopathy progression in cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy model. Journal of Clinical Investigation, 2021, 131, .	8.2	12
92	Neural Correlates of Color-Selective Metacontrast in Human Early Retinotopic Areas. Journal of Neurophysiology, 2010, 104, 2291-2301.	1.8	11
93	Layer-specific activation in human primary somatosensory cortex during tactile temporal prediction error processing. NeuroImage, 2022, 248, 118867.	4.2	11
94	Local Recurrence after Laparoscopic Resection of T3 Rectal Cancer without Preoperative Chemoradiation and a Risk Group Analysis: An Asian Collaborative Study. Journal of Gastrointestinal Surgery, 2008, 12, 933-938.	1.7	10
95	Detection of glucose in the human brain with ¹<scp>H</scp><scp>MRS</scp> at 7 <scp>Tesla</scp>. Magnetic Resonance in Medicine, 2016, 76, 1653-1660.	3.0	10
96	Respiratory fluctuations in pupil diameter are not maintained during cognitive tasks. Respiratory Physiology and Neurobiology, 2019, 265, 68-75.	1.6	10
97	The integrative role of the M1 in motor sequence learning. Neuroscience Letters, 2021, 760, 136081.	2.1	10
98	Surgical technique and outcomes of transabdominal preperitoneal inguinal hernia repair after radical prostatectomy: dissection between the transversalis fascia and superficial layers of preperitoneal fascia. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2019, 23, 167-174.	2.0	9
99	Correction for Liebrand et al., Receptor-like kinase SOBIR1/EVR interacts with receptor-like proteins in plant immunity against fungal infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13228-13228.	7.1	8
100	Left parietal involvement in motion sickness susceptibility revealed by multimodal magnetic resonance imaging. Human Brain Mapping, 2022, 43, 1103-1111.	3.6	8
101	A functional polymorphism of the GTP cyclohydrolase 1 gene predicts attention performance. Neuroscience Letters, 2014, 566, 46-49.	2.1	6
102	Intestinal perforation due to hemorrhagic Cytomegalovirus enteritis in a patient with severe uncontrolled lupus nephritis: a case and review of the literature. Rheumatology International, 2017, 37, 1395-1399.	3.0	6
103	Is Human Brain Activity During Driving Operations Modulated by the Viscoelastic Characteristics of a Steering Wheel?: An fMRI Study. IEEE Access, 2020, 8, 215073-215090.	4.2	6
104	Vestibular Morphological Asymmetry Associated With Motion Sickness Susceptibility. Frontiers in Neuroscience, 2021, 15, 763040.	2.8	6
105	Reply to: New Meta- and Mega-analyses of Magnetic Resonance Imaging Findings in Schizophrenia: Do They Really Increase Our Knowledge About the Nature of the Disease Process?. Biological Psychiatry, 2019, 85, e35-e39.	1.3	5
106	Deconvolution Analyses with Tent Functions Reveal Delayed and Long-sustained Increases of BOLD Signals with Acupuncture Stimulation. Magnetic Resonance in Medical Sciences, 2013, 12, 121-127.	2.0	4
107	Neural correlates with individual differences in temporal prediction during auditory-motor synchronization. Cerebral Cortex Communications, 2022, 3, tgac014.	1.6	4
108	The dorsal premotor cortex encodes the step-by-step planning processes for goal-directed motor behavior in humans. NeuroImage, 2022, 256, 119221.	4.2	4

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109	Saliency-guided eye movement during free-viewing in schizophrenic patients. Journal of Vision, 2015, 15, 61.	0.3	3
110	Differences in fractional anisotropy between the patients with schizophrenia and healthy comparison subjects. Molecular Psychiatry, 2020, 25, 697-698.	7.9	2
111	Relationship between white matter microstructure and work hours. Neuroscience Letters, 2021, 740, 135428.	2.1	2
112	Title is missing!. Journal of the Japanese Society of Intensive Care Medicine, 2004, 11, 193-199.	0.0	2
113	Association Study Between White Matter Microstructure and Intelligence Decline in Schizophrenia. Clinical EEG and Neuroscience, 2021, , 155005942110633.	1.7	2
114	Microscopic resolution imaging and proteomics correlation at histogeographically identical location: point by point correlation between ex vivo tissue imaging with high field MRI and multiplex tissue immunoblotting for proteomics profiling. , 2010, , .		1
115	Enhanced structural connectivity within the motor loop in professional boxers prior to a match. Scientific Reports, 2021, 11, 9015.	3.3	1
116	PROPHYLACTIC EFFICACY OF AZITHROMYCIN FOR SURGICAL SITE INFECTION IN BREAST SURGERY : A RANDOMIZED, CONTROLLED TRIAL. Juntendoì„ Igaku, 2012, 58, 334-339.	0.1	1
117	Functional Connectivity Pattern Using Resting-state fMRI as an Assessment Tool for Spatial Neglect during the Recovery Stage of Stroke: A Pilot Study. Magnetic Resonance in Medical Sciences, 2022, , .	2.0	1
118	Impact of post-operative paralytic ileus on post-operative outcomes after surgery for colorectal cancer: a single-institution, retrospective study. Surgery Today, 2022, 52, 1731-1740.	1.5	1
119	Cerebro-cerebellar interactions in nonhuman primates examined by optogenetic functional magnetic resonance imaging. Cerebral Cortex Communications, 2022, 3, .	1.6	1
120	Magnetic Resonance Imaging (MRI) and Magnetic Resonance Spectroscopy (MRS). , 2016, , 147-170.		0
121	Metastatic colon cancer derived from a diverticulum incidentally found at herniorrhaphy: a case report. Surgical Case Reports, 2018, 4, 47.	0.6	0
122	The Unbalance of Coagulation/Fibrinolysis and Microcirculatory Disturbance in Sepsis. Japanese Journal of Thrombosis and Hemostasis, 2000, 11, 229-235.	0.1	0
123	A case of benign esophageal stricture of unknown origin. Progress of Digestive Endoscopy, 2002, 61, 74-75.	0.0	0
124	Evaluation of Anti-p53 Antibodies as a Molecular Marker for Breast Carcinoma. Juntendoì„ Igaku, 2012, 58, 173-177.	0.1	0
125	A CASE REPORT OF SPINDLE CELL CARCINOMA IN BILATERAL SYNCHRONOUS BREAST CANCER. The Journal of the Japanese Practical Surgeon Society, 1989, 50, 1149-1154.	0.0	0
126	Changes in plasma levels of tissue plasminogen activator and plasminogen activator inhibitor-1 in sepsis with organ failure.. Nihon Kyukyu Igakukai Zasshi, 1994, 5, 365-372.	0.0	0

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127	Imbalance between coagulation and fibrinolysis in sepsis.. Nihon Kyukyu Igakukai Zasshi, 1995, 6, 25-32.	0.0	0
128	Alterations in circulating levels of soluble intercellular adhesion molecule-1 in sepsis.. Nihon Kyukyu Igakukai Zasshi, 1997, 8, 161-167.	0.0	0
129	Changes in Circulating Levels of Tissue Factor and Tissue Factor Pathway Inhibitor in SIRS, Septic MODS and Septic DIC.. Nihon Kyukyu Igakukai Zasshi, 1997, 8, 650-658.	0.0	0
130	Changes in protein C activity in severe sepsis.. Nihon Kyukyu Igakukai Zasshi, 1998, 9, 294-300.	0.0	0
131	Radical Surgical Outcomes for Inguinal Hernia via the Transabdominal Preperitoneal Approach Using a Parietex Mesh. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2015, 76, 1831-1836.	0.0	0
132	Encounter with Laparoscopic Surgery and Starting from Zero. Juntendo Medical Journal, 2017, 63, 245-251.	0.1	0
133	Single Incision Laparoscopic Complete Mesocolic Excision with Central Vascular Ligation for Advanced Transverse Colon Cancer Using Pincer Movement Method. Journal of Laparoendoscopic & Advanced Surgical Techniques Part B, Videoscopy, 2018, 28, .	0.2	0
134	Comparison of Prognostic Indicators in Patients Undergoing Palliative Surgery. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2020, 81, 1219-1228.	0.0	0