

Nobumasa Kato

List of Publications by Year in descending order

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123
papers

4,943
citations

126858

33
h-index

102432

66
g-index

126
all docs

126
docs citations

126
times ranked

6071
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial dysfunction in bipolar disorder. <i>Bipolar Disorders</i> , 2000, 2, 180-190.	1.1	321
2	A small number of abnormal brain connections predicts adult autism spectrum disorder. <i>Nature Communications</i> , 2016, 7, 11254.	5.8	244
3	Atypical gaze patterns in children and adults with autism spectrum disorders dissociated from developmental changes in gaze behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2935-2943.	1.2	198
4	Identification of Mitochondrial DNA Polymorphisms That Alter Mitochondrial Matrix pH and Intracellular Calcium Dynamics. <i>PLoS Genetics</i> , 2006, 2, e128.	1.5	194
5	Paroxysmal Kinesigenic Choreoathetosis Locus Maps to Chromosome 16p11.2-q12.1. <i>American Journal of Human Genetics</i> , 1999, 65, 1688-1697.	2.6	187
6	Two genetic variants of CD38 in subjects with autism spectrum disorder and controls. <i>Neuroscience Research</i> , 2010, 67, 181-191.	1.0	176
7	Association of the oxytocin receptor (OXTR) gene polymorphisms with autism spectrum disorder (ASD) in the Japanese population. <i>Journal of Human Genetics</i> , 2010, 55, 137-141.	1.1	173
8	Mitigation of Sociocommunicational Deficits of Autism Through Oxytocin-Induced Recovery of Medial Prefrontal Activity. <i>JAMA Psychiatry</i> , 2014, 71, 166.	6.0	154
9	Effects of creatine on mental fatigue and cerebral hemoglobin oxygenation. <i>Neuroscience Research</i> , 2002, 42, 279-285.	1.0	150
10	Quantitative proton magnetic resonance spectroscopy of the basal ganglia in patients with affective disorders. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 1998, 248, 53-58.	1.8	144
11	Reduced intracellular pH in the basal ganglia and whole brain measured by ³¹ P-MRS in bipolar disorder. <i>Psychiatry and Clinical Neurosciences</i> , 2004, 58, 82-88.	1.0	134
12	Localized volume reduction in prefrontal, temporolimbic, and paralimbic regions in schizophrenia: an MRI parcellation study. <i>Psychiatry Research - Neuroimaging</i> , 2004, 131, 195-207.	0.9	130
13	Mitochondrial DNA polymorphisms in bipolar disorder. <i>Journal of Affective Disorders</i> , 2001, 62, 151-164.	2.0	127
14	Magnetic Resonance Spectroscopy in Affective Disorders. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 1998, 10, 133-147.	0.9	120
15	Smaller amygdala volume and reduced anterior cingulate gray matter density associated with history of post-traumatic stress disorder. <i>Psychiatry Research - Neuroimaging</i> , 2009, 174, 210-216.	0.9	118
16	Alteration of Hemoglobin Oxygenation in the Frontal Region in Elderly Depressed Patients as Measured by Near-infrared Spectroscopy. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2000, 12, 465-471.	0.9	113
17	Decreased brain intracellular pH measured by. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 1998, 248, 301.	1.8	102
18	Resting-State Functional Connectivity-Based Biomarkers and Functional MRI-Based Neurofeedback for Psychiatric Disorders: A Challenge for Developing Theranostic Biomarkers. <i>International Journal of Neuropsychopharmacology</i> , 2017, 20, 769-781.	1.0	98

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19	Prefrontal hemodynamic response to verbal-fluency task and hyperventilation in bipolar disorder measured by multi-channel near-infrared spectroscopy. <i>Journal of Affective Disorders</i> , 2004, 82, 85-92.	2.0	90
20	Genome-wide Association Study of Autism Spectrum Disorder in the East Asian Populations. <i>Autism Research</i> , 2016, 9, 340-349.	2.1	89
21	Mutations in PRRT2 responsible for paroxysmal kinesigenic dyskinesias also cause benign familial infantile convulsions. <i>Journal of Human Genetics</i> , 2012, 57, 338-341.	1.1	82
22	Alterations of local spontaneous brain activity and connectivity in adults with high-functioning autism spectrum disorder. <i>Molecular Autism</i> , 2015, 6, 30.	2.6	78
23	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. <i>ELife</i> , 2018, 7, .	2.8	73
24	Reduced Gray Matter Volume of Pars Opercularis Is Associated with Impaired Social Communication in High-Functioning Autism Spectrum Disorders. <i>Biological Psychiatry</i> , 2010, 68, 1141-1147.	0.7	71
25	Linked alterations in gray and white matter morphology in adults with high-functioning autism spectrum disorder: A multimodal brain imaging study. <i>NeuroImage: Clinical</i> , 2015, 7, 155-169.	1.4	71
26	Mechanisms of altered Ca ²⁺ signalling in transformed lymphoblastoid cells from patients with bipolar disorder. <i>International Journal of Neuropsychopharmacology</i> , 2003, 6, 379-389.	1.0	63
27	Diminished Medial Prefrontal Activity behind Autistic Social Judgments of Incongruent Information. <i>PLoS ONE</i> , 2012, 7, e39561.	1.1	63
28	Association of bipolar disorder with the 5178 polymorphism in mitochondrial DNA. , 2000, 96, 182-186.		55
29	Paroxysmal kinesigenic choreoathetosis (PKC): confirmation of linkage to 16p11-q21, but unsuccessful detection of mutations among 157 genes at the PKC-critical region in seven PKC families. <i>Journal of Human Genetics</i> , 2007, 52, 334-341.	1.1	50
30	A multi-site, multi-disorder resting-state magnetic resonance image database. <i>Scientific Data</i> , 2021, 8, 227.	2.4	48
31	Possible relationship between mitochondrial DNA polymorphisms and lithium response in bipolar disorder. <i>International Journal of Neuropsychopharmacology</i> , 2003, 6, 421-424.	1.0	46
32	Sunk Cost Effect in Individuals with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2019, 49, 1-10.	1.7	44
33	Altered functional organization within the insular cortex in adult males with high-functioning autism spectrum disorder: evidence from connectivity-based parcellation. <i>Molecular Autism</i> , 2016, 7, 41.	2.6	41
34	Primary functional brain connections associated with melancholic major depressive disorder and modulation by antidepressants. <i>Scientific Reports</i> , 2020, 10, 3542.	1.6	39
35	Paroxysmal kinesigenic choreoathetosis: From first discovery in 1892 to genetic linkage with benign familial infantile convulsions. <i>Epilepsy Research</i> , 2006, 70, 174-184.	0.8	38
36	Attitudes toward risk and ambiguity in patients with autism spectrum disorder. <i>Molecular Autism</i> , 2017, 8, 45.	2.6	34

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37	Association and interaction analyses of NRG1 and ERBB4 genes with schizophrenia in a Japanese population. <i>Journal of Human Genetics</i> , 2008, 53, 929-935.	1.1	33
38	Deficit in visual temporal integration in autism spectrum disorders. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1027-1030.	1.2	33
39	Reduced planum temporale volume and delusional behaviour in patients with schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2007, 257, 318-324.	1.8	32
40	The effect of intranasal oxytocin versus placebo treatment on the autonomic responses to human sounds in autism: a single-blind, randomized, placebo-controlled, crossover design study. <i>Molecular Autism</i> , 2014, 5, 20.	2.6	32
41	Regulatory Science on AI-based Medical Devices and Systems. <i>Advanced Biomedical Engineering</i> , 2018, 7, 118-123.	0.4	32
42	Machine learning approach to identify a resting-state functional connectivity pattern serving as an endophenotype of autism spectrum disorder. <i>Brain Imaging and Behavior</i> , 2019, 13, 1689-1698.	1.1	31
43	Familial Paroxysmal Kinesigenic Choreoathetosis: An Electrophysiologic and Genotypic Analysis. <i>Epilepsia</i> , 1999, 40, 942-949.	2.6	30
44	Lack of eyeblink entrainments in autism spectrum disorders. <i>Neuropsychologia</i> , 2011, 49, 2784-2790.	0.7	29
45	White matter alterations in autism spectrum disorder and attention-deficit/hyperactivity disorder in relation to sensory profile. <i>Molecular Autism</i> , 2020, 11, 77.	2.6	28
46	Overlapping but Asymmetrical Relationships Between Schizophrenia and Autism Revealed by Brain Connectivity. <i>Schizophrenia Bulletin</i> , 2020, 46, 1210-1218.	2.3	28
47	Trimethyltin intoxication induces marked changes in neuropeptide expression in the rat hippocampus. <i>Synapse</i> , 1998, 29, 333-342.	0.6	26
48	Mitochondrial DNA haplogroup analysis in patients with bipolar disorder. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2009, 150B, 243-247.	1.1	26
49	The 24-hour Rhythms in Plasma Growth Hormone, Prolactin and Thyroid Stimulating Hormone: Effect of Sleep Deprivation. <i>Journal of Neuroendocrinology</i> , 1995, 7, 597-606.	1.2	25
50	Binding of Dopamine D1 Receptor and Noradrenaline Transporter in Individuals with Autism Spectrum Disorder: A PET Study. <i>Cerebral Cortex</i> , 2020, 30, 6458-6468.	1.6	25
51	Inflexible daily behaviour is associated with the ability to control an automatic reaction in autism spectrum disorder. <i>Scientific Reports</i> , 2018, 8, 8082.	1.6	22
52	Mitochondrial DNA polymorphisms and extraversion. <i>American Journal of Medical Genetics Part A</i> , 2004, 128B, 76-79.	2.4	21
53	Role of the right temporoparietal junction in intergroup bias in trust decisions. <i>Human Brain Mapping</i> , 2020, 41, 1677-1688.	1.9	21
54	Mitochondrial DNA-dependent effects of valproate on mitochondrial calcium levels in transmitochondrial cybrids. <i>International Journal of Neuropsychopharmacology</i> , 2008, 11, 71-8.	1.0	20

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55	Association between single nucleotide polymorphisms in estrogen receptor 1/2 genes and symptomatic severity of autism spectrum disorder. <i>Research in Developmental Disabilities</i> , 2018, 82, 20-26.	1.2	20
56	Enzyme Immunoassay of Thyroid-Stimulating Hormone Using Dried Blood Samples a Simple Technique of Screening for Congenital Hypothyroidism. <i>Analytical Letters</i> , 1980, 13, 1555-1565.	1.0	19
57	Relationship of Energy Metabolism Detected by ³¹ P-MRS in the Human Brain with Mental Fatigue. <i>Neuropsychobiology</i> , 1999, 39, 214-218.	0.9	19
58	The singular nature of auditory and visual scene analysis in autism. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160115.	1.8	19
59	Egocentric biases and atypical generosity in autistic individuals. <i>Autism Research</i> , 2019, 12, 1598-1608.	2.1	19
60	The effects of perinatal bisphenol A exposure on thyroid hormone homeostasis and glucose metabolism in the prefrontal cortex and hippocampus of rats. <i>Brain and Behavior</i> , 2019, 9, e01225.	1.0	19
61	Mapping of the wet/dry earwax locus to the pericentromeric region of chromosome 16. <i>Lancet</i> , The, 2002, 359, 2000-2002.	6.3	18
62	Association of Aryl Hydrocarbon Receptor-Related Gene Variants with the Severity of Autism Spectrum Disorders. <i>Frontiers in Psychiatry</i> , 2016, 7, 184.	1.3	18
63	Need for closure and cognitive flexibility in individuals with autism spectrum disorder: A preliminary study. <i>Psychiatry Research</i> , 2019, 271, 247-252.	1.7	18
64	Vocal Identity Recognition in Autism Spectrum Disorder. <i>PLoS ONE</i> , 2015, 10, e0129451.	1.1	18
65	No evidence for significant association between GABA receptor genes in chromosome 15q11-q13 and autism in a Japanese population. <i>Journal of Human Genetics</i> , 2007, 52, 985-989.	1.1	17
66	Ocular Fixation Abnormality in Patients with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2016, 46, 1613-1622.	1.7	17
67	Loss of Hippocampal Oligodendrocytes Contributes to the Deficit of Contextual Fear Learning in Adult Rats Experiencing Early Bisphenol A Exposure. <i>Molecular Neurobiology</i> , 2017, 54, 4524-4536.	1.9	16
68	White matter hyperintensity detected by magnetic resonance imaging and lithium response in bipolar disorder: A preliminary observation. <i>Psychiatry and Clinical Neurosciences</i> , 2000, 54, 117-120.	1.0	15
69	Similar impressions of humanness for human and artificial singing voices in autism spectrum disorders. <i>Cognition</i> , 2016, 153, 1-5.	1.1	14
70	Identification of attention-deficit hyperactivity disorder based on the complexity and symmetry of pupil diameter. <i>Scientific Reports</i> , 2021, 11, 8439.	1.6	14
71	Impact of past experiences on decision-making in autism spectrum disorder. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2020, 270, 1063-1071.	1.8	13
72	Neural correlates of shared sensory symptoms in autism and attention-deficit/hyperactivity disorder. <i>Brain Communications</i> , 2020, 2, fcaa186.	1.5	13

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73	A search for a mutation in the tumour necrosis factor-alpha gene in narcolepsy. <i>Psychiatry and Clinical Neurosciences</i> , 1999, 53, 421-423.	1.0	12
74	Aberrant Monoaminergic System in Thyroid Hormone Receptor- β^2 Deficient Mice as a Model of Attention-Deficit/Hyperactivity Disorder. <i>International Journal of Neuropsychopharmacology</i> , 2015, 18, pyv004.	1.0	12
75	Cognitive profiles of adults with high-functioning autism spectrum disorder and those with attention-deficit/hyperactivity disorder based on the WAIS-III. <i>Research in Developmental Disabilities</i> , 2017, 61, 108-115.	1.2	12
76	Cortical surface architecture endophenotype and correlates of clinical diagnosis of autism spectrum disorder. <i>Psychiatry and Clinical Neurosciences</i> , 2019, 73, 409-415.	1.0	11
77	A single session of navigation-guided repetitive transcranial magnetic stimulation over the right anterior temporoparietal junction in autism spectrum disorder. <i>Brain Stimulation</i> , 2021, 14, 682-684.	0.7	11
78	Atypical alert state control in adult patients with ADHD: A pupillometry study. <i>PLoS ONE</i> , 2020, 15, e0244662.	1.1	11
79	Effects of sleep deprivation: The phosphorus metabolism in the human brain measured by ^{31}P magnetic resonance spectroscopy. <i>Psychiatry and Clinical Neurosciences</i> , 1999, 53, 199-201.	1.0	10
80	Relationships between mitochondrial DNA subhaplogroups and intracellular calcium dynamics. <i>Mitochondrion</i> , 2008, 8, 164-169.	1.6	10
81	Transdiagnostic subtyping of males with developmental disorders using cortical characteristics. <i>NeuroImage: Clinical</i> , 2020, 27, 102288.	1.4	9
82	Altered effects of perspective-taking on functional connectivity during self- and other-referential processing in adults with autism spectrum disorder. <i>Social Neuroscience</i> , 2017, 12, 1-12.	0.7	8
83	Influence of restraint stress on the expression and the serine/threonine phosphatase activity of calcineurin in the rat brain. <i>Synapse</i> , 2001, 40, 130-136.	0.6	7
84	Enhanced segregation of concurrent sounds with similar spectral uncertainties in individuals with autism spectrum disorder. <i>Scientific Reports</i> , 2015, 5, 10524.	1.6	6
85	Fast response to human voices in autism. <i>Scientific Reports</i> , 2016, 6, 26336.	1.6	6
86	Lack of implicit visual perspective taking in adult males with autism spectrum disorders. <i>Research in Developmental Disabilities</i> , 2020, 99, 103593.	1.2	6
87	Contraction of distance and duration production in autism spectrum disorder. <i>Scientific Reports</i> , 2019, 9, 8806.	1.6	5
88	Aberrant cerebellar-default-mode functional connectivity underlying auditory verbal hallucinations in schizophrenia revealed by multi-voxel pattern analysis of resting-state functional connectivity MRI data. <i>Schizophrenia Research</i> , 2018, 197, 607-608.	1.1	4
89	Audiogenic seizure induces <i>fos</i> mRNA expression in the inferior colliculus and not in the hippocampus. <i>Psychiatry and Clinical Neurosciences</i> , 1995, 49, S280-2.	1.0	3
90	Anticonvulsant Actions of Glutamate Receptor Antagonists Against Audiogenic Seizures in Adult Rats with Neonatal Hypothyroidism. <i>Epilepsia</i> , 1996, 37, 109-110.	2.6	3

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91	A newly developed assay for melatonin using cells expressing human melâ€œa receptor. <i>Psychiatry and Clinical Neurosciences</i> , 1999, 53, 247-248.	1.0	3
92	A case of senile depression diagnosed by N-isopropyl-P-[123I]-iodoamphetamine single photon emission computed tomography and 18F-fluorodeoxyglucose positron emission tomography. <i>Psychogeriatrics</i> , 2008, 8, 101-103.	0.6	3
93	Linked functional network abnormalities during intrinsic and extrinsic activity in schizophrenia as revealed by a data-fusion approach. <i>NeuroImage: Clinical</i> , 2018, 17, 69-79.	1.4	3
94	Pupillometric Complexity and Symmetricity Follow Inverted-U Curves Against Baseline Diameter Due to Crossed Locus Coeruleus Projections to the Edinger-Westphal Nucleus. <i>Frontiers in Physiology</i> , 2021, 12, 614479.	1.3	3
95	Association of bipolar disorder with the 5178 polymorphism in mitochondrial DNA. <i>American Journal of Medical Genetics Part A</i> , 2000, 96, 182-186.	2.4	3
96	Decision flexibilities in autism spectrum disorder: an fMRI study of moral dilemmas. <i>Social Cognitive and Affective Neuroscience</i> , 2022, 17, 904-911.	1.5	3
97	Immunoreactive Somatostatin Contents in the Cerebrospinal Fluid of Children with Various Types of Epilepsy. <i>Psychiatry and Clinical Neurosciences</i> , 1988, 42, 651-652.	1.0	2
98	Fourth finger dependence of high-functioning autism spectrum disorder in multi-digit force coordination. <i>Scientific Reports</i> , 2019, 9, 1737.	1.6	2
99	People with autism perceive drastic illusory changes for repeated verbal stimuli. <i>Scientific Reports</i> , 2019, 9, 15866.	1.6	2
100	Brain activations while processing degraded speech in adults with autism spectrum disorder. <i>Neuropsychologia</i> , 2021, 152, 107750.	0.7	2
101	Altered Brain Contents of Seizure-Related Neuropeptides in Ihara's Genetically Epileptic Rat (IGER).. <i>Epilepsia</i> , 1996, 37, 106-107.	2.6	1
102	Development and clinical application of a bioluminescence enzyme immunoassay for oxytocin. <i>Luminescence</i> , 2018, 33, 670-674.	1.5	1
103	An fMRI Study of an Abnormal Neurovascular Response in the Right Premotor Cortex during Inner Speech and the Relationship to Auditory Hallucinations in Patients with Schizophrenia. <i>The Showa University Journal of Medical Sciences</i> , 2013, 25, 283-295.	0.1	1
104	Animal Models: Changes of Immunoreactive Somatostatin, Neuropeptide Y, and Corticotropinâ€œReleasing Factor (CRF) in the Brain of Spontaneously Epileptic Rats (SER). <i>Psychiatry and Clinical Neurosciences</i> , 1992, 46, 531-533.	1.0	0
105	Trimethyltin (TMT)â€œTreated Rats with Specific Hippocampal Lesion as a Possible Model of Endocrine Abnormality in Depression. <i>Psychiatry and Clinical Neurosciences</i> , 1992, 46, 572-573.	1.0	0
106	The Susceptibility of Pentylentetrazole-Induced Seizure in Rats with Hippocampal Lesion Induced by Trimethyltin. <i>Psychiatry and Clinical Neurosciences</i> , 1993, 47, 408-410.	1.0	0
107	Two Autopsied Cases of Familial Sudanophilic Leukodystrophy. <i>Psychiatry and Clinical Neurosciences</i> , 1994, 48, 869-879.	1.0	0
108	Effect of MK-801 on c-fos mRNA Expression After Audiogenic Seizures in Adult Rats with Neonatal Hypothyroidism.. <i>Epilepsia</i> , 1996, 37, 108-109.	2.6	0

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109	Angina Pectoris After Recovery From an Acute Coronary Event. Japanese Circulation Journal, 1997, 61, 299-307.	1.0	0
110	Effects of Kainic Acid on mRNA Expression of GABA _A Receptor Subunits in Rat Hippocampus. Epilepsia, 2000, 41, 50-50.	2.6	0
111	Pharmacological Characterization of EEG Spikes and Seizures Induced by a Specific Calcium-Permeable AMPA Receptor Antagonist, 1-Naphthylacetyl Spermine (1-NA-Spm). Epilepsia, 2000, 41, 54-54.	2.6	0
112	Association Between Serum Anticholinergic Activity and Psychiatric Symptoms of Chronic Schizophrenia. The Showa University Journal of Medical Sciences, 2015, 27, 251-260.	0.1	0
113	The Role of Parasympathetic Nervous System in Stress-Induced Gastric Ulcer Formation: A Comparative Study on SHR, WKY, Wistar and MSG (monosodium-L-glutamate)-Treated Rats. International Heart Journal, 1987, 28, 625-625.	0.6	0
114	Perception for repetitive stimuli in Autism Spectrum Disorder -Investigation using verbal transformation effects-. The Proceedings of the Annual Convention of the Japanese Psychological Association, 2017, 81, 3B-037-3B-037.	0.0	0
115	People with autism perceive drastic illusory changes for repetitive verbal stimuli. The Proceedings of the Annual Convention of the Japanese Psychological Association, 2018, 82, 2PM-044-2PM-044.	0.0	0
116	The Features of Cognitive Function in Adults with Autism Spectrum Disorder. The Proceedings of the Annual Convention of the Japanese Psychological Association, 2018, 82, 3PM-035-3PM-035.	0.0	0
117	People with autism can perceive illusory changes strongly by using verbal transformation effects. The Proceedings of the Annual Convention of the Japanese Psychological Association, 2019, 83, 3B-041-3B-041.	0.0	0
118	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0
119	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0
120	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0
121	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0
122	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0
123	Generalizable brain network markers of major depressive disorder across multiple imaging sites. , 2020, 18, e3000966.		0