Nobumasa Kato

List of Publications by Year
in descending order

123	4,943	126907 33	102487 66
papers	citations	h-index	g-index

126	126	126	6071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mitochondrial dysfunction in bipolar disorder. Bipolar Disorders, 2000, 2, 180-190.	1.9	321
2	A small number of abnormal brain connections predicts adult autism spectrum disorder. Nature Communications, 2016, 7, 11254.	12.8	244
3	Atypical gaze patterns in children and adults with autism spectrum disorders dissociated from developmental changes in gaze behaviour. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2935-2943.	2.6	198
4	Identification of Mitochondrial DNA Polymorphisms That Alter Mitochondrial Matrix pH and Intracellular Calcium Dynamics. PLoS Genetics, 2006, 2, e128.	3.5	194
5	Paroxysmal Kinesigenic Choreoathetosis Locus Maps to Chromosome 16p11.2-q12.1. American Journal of Human Genetics, 1999, 65, 1688-1697.	6.2	187
6	Two genetic variants of CD38 in subjects with autism spectrum disorder and controls. Neuroscience Research, 2010, 67, 181-191.	1.9	176
7	Association of the oxytocin receptor (OXTR) gene polymorphisms with autism spectrum disorder (ASD) in the Japanese population. Journal of Human Genetics, 2010, 55, 137-141.	2.3	173
8	Mitigation of Sociocommunicational Deficits of Autism Through Oxytocin-Induced Recovery of Medial Prefrontal Activity. JAMA Psychiatry, 2014, 71, 166.	11.0	154
9	Effects of creatine on mental fatigue and cerebral hemoglobin oxygenation. Neuroscience Research, 2002, 42, 279-285.	1.9	150
10	Quantitative proton magnetic resonance spectroscopy of the basal ganglia in patients with affective disorders. European Archives of Psychiatry and Clinical Neuroscience, 1998, 248, 53-58.	3.2	144
11	Reduced intracellular pH in the basal ganglia and whole brain measured by 31P-MRS in bipolar disorder. Psychiatry and Clinical Neurosciences, 2004, 58, 82-88.	1.8	134
12	Localized volume reduction in prefrontal, temporolimbic, and paralimbic regions in schizophrenia: an MRI parcellation study. Psychiatry Research - Neuroimaging, 2004, 131, 195-207.	1.8	130
13	Mitochondrial DNA polymorphisms in bipolar disorder. Journal of Affective Disorders, 2001, 62, 151-164.	4.1	127
14	Magnetic Resonance Spectroscopy in Affective Disorders. Journal of Neuropsychiatry and Clinical Neurosciences, 1998, 10, 133-147.	1.8	120
15	Smaller amygdala volume and reduced anterior cingulate gray matter density associated with history of post-traumatic stress disorder. Psychiatry Research - Neuroimaging, 2009, 174, 210-216.	1.8	118
16	Alteration of Hemoglobin Oxygenation in the Frontal Region in Elderly Depressed Patients as Measured by Near-infrared Spectroscopy. Journal of Neuropsychiatry and Clinical Neurosciences, 2000, 12, 465-471.	1.8	113
17	Decreased brain intracellular pH measured by. European Archives of Psychiatry and Clinical Neuroscience, 1998, 248, 301.	3.2	102
18	Resting-State Functional Connectivity-Based Biomarkers and Functional MRI-Based Neurofeedback for Psychiatric Disorders: A Challenge for Developing Theranostic Biomarkers. International Journal of Neuropsychopharmacology, 2017, 20, 769-781.	2.1	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. Journal of Affective Disorders, 2004, 82, 85-92.	4.1	90
20	Genomeâ€wide Association Study of Autism Spectrum Disorder in the East Asian Populations. Autism Research, 2016, 9, 340-349.	3.8	89
21	Mutations in PRRT2 responsible for paroxysmal kinesigenic dyskinesias also cause benign familial infantile convulsions. Journal of Human Genetics, 2012, 57, 338-341.	2.3	82
22	Alterations of local spontaneous brain activity and connectivity in adults with high-functioning autism spectrum disorder. Molecular Autism, 2015, 6, 30.	4.9	78
23	A prediction model of working memory across health and psychiatric disease using whole-brain functional connectivity. ELife, 2018, 7, .	6.0	73
24	Reduced Gray Matter Volume of Pars Opercularis Is Associated with Impaired Social Communication in High-Functioning Autism Spectrum Disorders. Biological Psychiatry, 2010, 68, 1141-1147.	1.3	71
25	Linked alterations in gray and white matter morphology in adults with high-functioning autism spectrum disorder: A multimodal brain imaging study. NeuroImage: Clinical, 2015, 7, 155-169.	2.7	71
26	Mechanisms of altered Ca2+ signalling in transformed lymphoblastoid cells from patients with bipolar disorder. International Journal of Neuropsychopharmacology, 2003, 6, 379-389.	2.1	63
27	Diminished Medial Prefrontal Activity behind Autistic Social Judgments of Incongruent Information. PLoS ONE, 2012, 7, e39561.	2.5	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. Journal of Human Genetics, 2007, 52, 334-341.	2.3	50
30	A multi-site, multi-disorder resting-state magnetic resonance image database. Scientific Data, 2021, 8, 227.	5.3	48
31	Possible relationship between mitochondrial DNA polymorphisms and lithium response in bipolar disorder. International Journal of Neuropsychopharmacology, 2003, 6, 421-424.	2.1	46
32	Sunk Cost Effect in Individuals with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2019, 49, 1-10.	2.7	44
33	Altered functional organization within the insular cortex in adult males with high-functioning autism spectrum disorder: evidence from connectivity-based parcellation. Molecular Autism, 2016, 7, 41.	4.9	41
34	Primary functional brain connections associated with melancholic major depressive disorder and modulation by antidepressants. Scientific Reports, 2020, 10, 3542.	3.3	39
35	Paroxysmal kinesigenic choreoathetosis: From first discovery in 1892 to genetic linkage with benign familial infantile convulsions. Epilepsy Research, 2006, 70, 174-184.	1.6	38
36	Attitudes toward risk and ambiguity in patients with autism spectrum disorder. Molecular Autism, 2017, 8, 45.	4.9	34

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37	Association and interaction analyses of NRG1 and ERBB4 genes with schizophrenia in a Japanese population. Journal of Human Genetics, 2008, 53, 929-935.	2.3	33
38	Deficit in visual temporal integration in autism spectrum disorders. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1027-1030.	2.6	33
39	Reduced planum temporale volume and delusional behaviour in patients with schizophrenia. European Archives of Psychiatry and Clinical Neuroscience, 2007, 257, 318-324.	3.2	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. Molecular Autism, 2014, 5, 20.	4.9	32
41	Regulatory Science on AI-based Medical Devices and Systems. Advanced Biomedical Engineering, 2018, 7, 118-123.	0.6	32
42	Machine learning approach to identify a resting-state functional connectivity pattern serving as an endophenotype of autism spectrum disorder. Brain Imaging and Behavior, 2019, 13, 1689-1698.	2.1	31
43	Familial Paroxysmal Kinesigenic Choreoathetosis: An Electrophysiologic and Genotypic Analysis. Epilepsia, 1999, 40, 942-949.	5.1	30
44	Lack of eyeblink entrainments in autism spectrum disorders. Neuropsychologia, 2011, 49, 2784-2790.	1.6	29
45	White matter alterations in autism spectrum disorder and attention-deficit/hyperactivity disorder in relation to sensory profile. Molecular Autism, 2020, 11, 77.	4.9	28
46	Overlapping but Asymmetrical Relationships Between Schizophrenia and Autism Revealed by Brain Connectivity. Schizophrenia Bulletin, 2020, 46, 1210-1218.	4.3	28
47	Trimethyltin intoxication induces marked changes in neuropeptide expression in the rat hippocampus. Synapse, 1998, 29, 333-342.	1.2	26
48	Mitochondrial DNA haplogroup analysis in patients with bipolar disorder. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2009, 150B, 243-247.	1.7	26
49	The 24â€hour Rhythms in Plasma Growth Hormone, Prolactin and Thyroid Stimulating Hormone: Effect of Sleep Deprivation. Journal of Neuroendocrinology, 1995, 7, 597-606.	2.6	25
50	Binding of Dopamine D1 Receptor and Noradrenaline Transporter in Individuals with Autism Spectrum Disorder: A PET Study. Cerebral Cortex, 2020, 30, 6458-6468.	2.9	25
51	Inflexible daily behaviour is associated with the ability to control an automatic reaction in autism spectrum disorder. Scientific Reports, 2018, 8, 8082.	3.3	22
52	Mitochondrial DNA polymorphisms and extraversion. American Journal of Medical Genetics Part A, 2004, 128B, 76-79.	2.4	21
53	Role of the right temporoparietal junction in intergroup bias in trust decisions. Human Brain Mapping, 2020, 41, 1677-1688.	3.6	21
54	Mitochondrial DNA-dependent effects of valproate on mitochondrial calcium levels in transmitochondrial cybrids. International Journal of Neuropsychopharmacology, 2008, 11, 71-8.	2.1	20

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55	Association between single nucleotide polymorphisms in estrogen receptor 1/2 genes and symptomatic severity of autism spectrum disorder. Research in Developmental Disabilities, 2018, 82, 20-26.	2.2	20
56	Enzyme Immunoassay of Thyroid-Stimulating Hormone Using Dried Blood Samples a Simple Technique of Screening for Congenital Hypothyroidism. Analytical Letters, 1980, 13, 1555-1565.	1.8	19
57	Relationship of Energy Metabolism Detected by ³¹P-MRS in the Human Brain with Mental Fatigue. Neuropsychobiology, 1999, 39, 214-218.	1.9	19
58	The singular nature of auditory and visual scene analysis in autism. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160115.	4.0	19
59	Egocentric biases and atypical generosity in autistic individuals. Autism Research, 2019, 12, 1598-1608.	3.8	19
60	The effects of perinatal bisphenol A exposure on thyroid hormone homeostasis and glucose metabolism in the prefrontal cortex and hippocampus of rats. Brain and Behavior, 2019, 9, e01225.	2.2	19
61	Mapping of the wet/dry earwax locus to the pericentromeric region of chromosome 16. Lancet, The, 2002, 359, 2000-2002.	13.7	18
62	Association of Aryl Hydrocarbon Receptor-Related Gene Variants with the Severity of Autism Spectrum Disorders. Frontiers in Psychiatry, 2016, 7, 184.	2.6	18
63	Need for closure and cognitive flexibility in individuals with autism spectrum disorder: A preliminary study. Psychiatry Research, 2019, 271, 247-252.	3.3	18
64	Vocal Identity Recognition in Autism Spectrum Disorder. PLoS ONE, 2015, 10, e0129451.	2.5	18
65	No evidence for significant association between GABA receptor genes in chromosome 15q11â€“q13 and autism in a Japanese population. Journal of Human Genetics, 2007, 52, 985-989.	2.3	17
66	Ocular Fixation Abnormality in Patients with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2016, 46, 1613-1622.	2.7	17
67	Loss of Hippocampal Oligodendrocytes Contributes to the Deficit of Contextual Fear Learning in Adult Rats Experiencing Early Bisphenol A Exposure. Molecular Neurobiology, 2017, 54, 4524-4536.	4.0	16
68	White matter hyperintensity detected by magnetic resonance imaging and lithium response in bipolar disorder: A preliminary observation. Psychiatry and Clinical Neurosciences, 2000, 54, 117-120.	1.8	15
69	Similar impressions of humanness for human and artificial singing voices in autism spectrum disorders. Cognition, 2016, 153, 1-5.	2.2	14
70	Identification of attention-deficit hyperactivity disorder based on the complexity and symmetricity of pupil diameter. Scientific Reports, 2021, 11, 8439.	3.3	14
71	Impact of past experiences on decision-making in autism spectrum disorder. European Archives of Psychiatry and Clinical Neuroscience, 2020, 270, 1063-1071.	3.2	13
72	Neural correlates of shared sensory symptoms in autism and attention-deficit/hyperactivity disorder. Brain Communications, 2020, 2, fcaa186.	3.3	13

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73	A search for a mutation in the tumour necrosis factor-alpha gene in narcolepsy. Psychiatry and Clinical Neurosciences, 1999, 53, 421-423.	1.8	12
74	Aberrant Monoaminergic System in Thyroid Hormone Receptor-Î² Deficient Mice as a Model of Attention-Deficit/Hyperactivity Disorder. International Journal of Neuropsychopharmacology, 2015, 18, pyv004.	2.1	12
75	Cognitive profiles of adults with high-functioning autism spectrum disorder and those with attention-deficit/hyperactivity disorder based on the WAIS-III. Research in Developmental Disabilities, 2017, 61, 108-115.	2.2	12
76	Cortical surface architecture endophenotype and correlates of clinical diagnosis of autism spectrum disorder. Psychiatry and Clinical Neurosciences, 2019, 73, 409-415.	1.8	11
77	A single session of navigation-guided repetitive transcranial magnetic stimulation over the right anterior temporoparietal junction in autism spectrum disorder. Brain Stimulation, 2021, 14, 682-684.	1.6	11
78	Atypical alert state control in adult patients with ADHD: A pupillometry study. PLoS ONE, 2020, 15, e0244662.	2.5	11
79	Effects of sleep deprivation: The phosphorus metabolism in the human brain measured by 31 Pâ€magnetic resonance spectroscopy. Psychiatry and Clinical Neurosciences, 1999, 53, 199-201.	1.8	10
80	Relationships between mitochondrial DNA subhaplogroups and intracellular calcium dynamics. Mitochondrion, 2008, 8, 164-169.	3.4	10
81	Transdiagnostic subtyping of males with developmental disorders using cortical characteristics. NeuroImage: Clinical, 2020, 27, 102288.	2.7	9
82	Altered effects of perspective-taking on functional connectivity during self- and other-referential processing in adults with autism spectrum disorder. Social Neuroscience, 2017, 12, 1-12.	1.3	8
83	Influence of restraint stress on the expression and the serine/threonine phosphatase activity of calcineurin in the rat brain. Synapse, 2001, 40, 130-136.	1.2	7
84	Enhanced segregation of concurrent sounds with similar spectral uncertainties in individuals with autism spectrum disorder. Scientific Reports, 2015, 5, 10524.	3.3	6
85	Fast response to human voices in autism. Scientific Reports, 2016, 6, 26336.	3.3	6
86	Lack of implicit visual perspective taking in adult males with autism spectrum disorders. Research in Developmental Disabilities, 2020, 99, 103593.	2.2	6
87	Contraction of distance and duration production in autism spectrum disorder. Scientific Reports, 2019, 9, 8806.	3.3	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. Schizophrenia Research, 2018, 197, 607-608.	2.0	4
89	Audiogenic seizure induces câ€fos mRNA expression in the inferior colliculus and not in the hippocampus. Psychiatry and Clinical Neurosciences, 1995, 49, S280-2.	1.8	3
90	Anticonvulsant Actions of Glutamate Receptor Antagonists Against Audiogenic Seizures in Adult Rats with Neonatal Hypothyroidism.. Epilepsia, 1996, 37, 109-110.	5.1	3

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91	A newly developed assay for melatonin using cells expressing human melâ€1a receptor. Psychiatry and Clinical Neurosciences, 1999, 53, 247-248.	1.8	3
92	A case of senile depression diagnosed by N-isopropyl-P-[123I]-iodoamphetamine single photon emission computed tomography and18F-fluorodeoxyglucose positron emission tomography. Psychogeriatrics, 2008, 8, 101-103.	1.2	3
93	Linked functional network abnormalities during intrinsic and extrinsic activity in schizophrenia as revealed by a data-fusion approach. NeuroImage: Clinical, 2018, 17, 69-79.	2.7	3
94	Pupillometric Complexity and Symmetricity Follow Inverted-U Curves Against Baseline Diameter Due to Crossed Locus Coeruleus Projections to the Edinger-Westphal Nucleus. Frontiers in Physiology, 2021, 12, 614479.	2.8	3
95	Association of bipolar disorder with the 5178 polymorphism in mitochondrial DNA. American Journal of Medical Genetics Part A, 2000, 96, 182-186.	2.4	3
96	Decision flexibilities in autism spectrum disorder: an fMRI study of moral dilemmas. Social Cognitive and Affective Neuroscience, 2022, 17, 904-911.	3.0	3
97	Immunoreactive Somatostatin Contents in the Cerebrospinal Fluid of Children with Various Types of Epilepsy. Psychiatry and Clinical Neurosciences, 1988, 42, 651-652.	1.8	2
98	Fourth finger dependence of high-functioning autism spectrum disorder in multi-digit force coordination. Scientific Reports, 2019, 9, 1737.	3.3	2
99	People with autism perceive drastic illusory changes for repeated verbal stimuli. Scientific Reports, 2019, 9, 15866.	3.3	2
100	Brain activations while processing degraded speech in adults with autism spectrum disorder. Neuropsychologia, 2021, 152, 107750.	1.6	2
101	Altered Brain Contents of Seizure-Related Neuropeptides in Ihara's Genetically Epileptic Rat (IGER).. Epilepsia, 1996, 37, 106-107.	5.1	1
102	Development and clinical application of a bioluminescence enzyme immunoassay for oxytocin. Luminescence, 2018, 33, 670-674.	2.9	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. The Showa University Journal of Medical Sciences, 2013, 25, 283-295.	0.1	1
104	Animal Models: Changes of Immunoreactive Somatostatin, Neuropeptide Y, and Corticotropinâ€Releasing Factor (CRF) in the Brain of Spontaneously Epileptic Rats (SER). Psychiatry and Clinical Neurosciences, 1992, 46, 531-533.	1.8	0
105	Trimethyltin (TMT)â€Treated Rats with Specific Hippocampal Lesion as a Possible Model of Endocrine Abnormality in Depression. Psychiatry and Clinical Neurosciences, 1992, 46, 572-573.	1.8	0
106	The Susceptibility of Pentylenetetrazole-Induced Seizure in Rats with Hippocampal Lesion Induced by Trimethyltin. Psychiatry and Clinical Neurosciences, 1993, 47, 408-410.	1.8	0
107	Two Autopsied Cases of Familial Sudanophilic Leukodystrophy. Psychiatry and Clinical Neurosciences, 1994, 48, 869-879.	1.8	0
108	Effect of MK-801 on c-fos mRNA Expression After Audiogenic Seizures in Adult Rats with Neonatal Hypothyroidism.. Epilepsia, 1996, 37, 108-109.	5.1	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, Receptor Subunits in Rat Hippocampus. Epilepsia, 2000, 41, 50-50.	5.1	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.	5.1	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