

# Makoto Arai

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,046  
citations

623734

14  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Analyses of Copy-Number Variation in Autism Spectrum Disorder and Schizophrenia Reveal Etiological Overlap and Biological Insights. <i>Cell Reports</i> , 2018, 24, 2838-2856.	6.4	177
2	Enhanced Carbonyl Stress in a Subpopulation of Schizophrenia. <i>Archives of General Psychiatry</i> , 2010, 67, 589.	12.3	141
3	Structure of pathological TDP-43 filaments from ALS with FTLD. <i>Nature</i> , 2022, 601, 139-143.	27.8	129
4	Measurement of glyoxalase activities. <i>Biochemical Society Transactions</i> , 2014, 42, 491-494.	3.4	88
5	Clinical Features of Schizophrenia With Enhanced Carbonyl Stress. <i>Schizophrenia Bulletin</i> , 2014, 40, 1040-1046.	4.3	56
6	A method for estimating spatial resolution of real image in the Fourier domain. <i>Journal of Microscopy</i> , 2016, 261, 57-66.	1.8	45
7	Advanced glycation end products and schizophrenia: A systematic review. <i>Journal of Psychiatric Research</i> , 2015, 66-67, 112-117.	3.1	43
8	ARHGAP10, which encodes Rho GTPase-activating protein 10, is a novel gene for schizophrenia risk. <i>Translational Psychiatry</i> , 2020, 10, 247.	4.8	42
9	Pyridoxamine: A novel treatment for schizophrenia with enhanced carbonyl stress. <i>Psychiatry and Clinical Neurosciences</i> , 2018, 72, 35-44.	1.8	40
10	Carbonyl stress and schizophrenia. <i>Psychiatry and Clinical Neurosciences</i> , 2014, 68, 655-665.	1.8	29
11	Three-dimensional alteration of neurites in schizophrenia. <i>Translational Psychiatry</i> , 2019, 9, 85.	4.8	28
12	Determination of methylglyoxal in human blood plasma using fluorescence high performance liquid chromatography after derivatization with 1,2-diamino-4,5-methylenedioxybenzene. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1029-1030, 102-105.	2.3	24
13	Maternal diabetes in early pregnancy, and psychotic experiences and depressive symptoms in 10-year-old offspring: A population-based birth cohort study. <i>Schizophrenia Research</i> , 2019, 206, 52-57.	2.0	21
14	Replication of enhanced carbonyl stress in a subpopulation of schizophrenia. <i>Psychiatry and Clinical Neurosciences</i> , 2014, 68, 83-84.	1.8	20
15	Vitamin B6 deficiency hyperactivates the noradrenergic system, leading to social deficits and cognitive impairment. <i>Translational Psychiatry</i> , 2021, 11, 262.	4.8	16
16	Brain capillary structures of schizophrenia cases and controls show a correlation with their neuron structures. <i>Scientific Reports</i> , 2021, 11, 11768.	3.3	15
17	Characterization of modified proteins in plasma from a subtype of schizophrenia based on carbonyl stress: Protein carbonyl is a possible biomarker of psychiatric disorders. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 361-366.	2.1	14
18	The regulation of soluble receptor for AGEs contributes to carbonyl stress in schizophrenia. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 447-452.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Combined glyoxalase 1 dysfunction and vitamin B6 deficiency in a schizophrenia model system causes mitochondrial dysfunction in the prefrontal cortex. <i>Redox Biology</i> , 2021, 45, 102057.	9.0	12
20	High-sucrose diets contribute to brain angiopathy with impaired glucose uptake and psychosis-related higher brain dysfunctions in mice. <i>Science Advances</i> , 2021, 7, eabl6077.	10.3	12
21	Music-evoked emotions in schizophrenia. <i>Schizophrenia Research</i> , 2017, 185, 144-147.	2.0	10
22	Enhanced carbonyl stress and disrupted white matter integrity in schizophrenia. <i>Schizophrenia Research</i> , 2020, 223, 242-248.	2.0	9
23	Accumulation of Carbonyl Proteins in the Brain of Mouse Model for Methylglyoxal Detoxification Deficits. <i>Antioxidants</i> , 2021, 10, 574.	5.1	9
24	Role of glyoxalase 1 in methylglyoxal detoxification—the broad player of psychiatric disorders. <i>Redox Biology</i> , 2022, 49, 102222.	9.0	9
25	Dysregulation of post-transcriptional modification by copy number variable microRNAs in schizophrenia with enhanced glycation stress. <i>Translational Psychiatry</i> , 2021, 11, 331.	4.8	7
26	Cutting-edge morphological studies of post-mortem brains of patients with schizophrenia and potential applications of X-ray nanotomography (nano-CT). <i>Psychiatry and Clinical Neurosciences</i> , 2020, 74, 176-182.	1.8	6
27	Structural diverseness of neurons between brain areas and between cases. <i>Translational Psychiatry</i> , 2021, 11, 49.	4.8	6
28	Advanced glycation end products and cognitive impairment in schizophrenia. <i>PLoS ONE</i> , 2021, 16, e0251283.	2.5	6
29	Fingertip advanced glycation end products and psychotic symptoms among adolescents. <i>NPJ Schizophrenia</i> , 2021, 7, 37.	3.6	6
30	The accumulation of advanced glycation end-products in a schizophrenic patient with a glyoxalase 1 frameshift mutation: An autopsy study. <i>Schizophrenia Research</i> , 2020, 223, 356-358.	2.0	3
31	Near-Infrared Time-Resolved Spectroscopy Shows Anterior Prefrontal Blood Volume Reduction in Schizophrenia but Not in Major Depressive Disorder. <i>Sensors</i> , 2022, 22, 1594.	3.8	3
32	Schizophrenia-Mimicking Layers Outperform Conventional Neural Network Layers. <i>Frontiers in Neurobotics</i> , 2022, 16, 851471.	2.8	1
33	Role of advanced glycation end products in the longitudinal association between muscular strength and psychotic symptoms among adolescents. <i>NPJ Schizophrenia</i> , 2022, 8, .	3.6	1
34	Exonic deletions in IMMP2L in schizophrenia with enhanced glycation stress subtype. <i>PLoS ONE</i> , 2022, 17, e0270506.	2.5	1