Venkata S Mattay

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4229362/publications.pdf

Version: 2024-02-01

132	26,910	12322	12258
papers	citations	69 h-index	133 g-index

139	139	139	23130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Serotonin Transporter Genetic Variation and the Response of the Human Amygdala. Science, 2002, 297, 400-403.	6.0	2,227
2	5-HTTLPR polymorphism impacts human cingulate-amygdala interactions: a genetic susceptibility mechanism for depression. Nature Neuroscience, 2005, 8, 828-834.	7.1	1,860
3	Oxytocin Modulates Neural Circuitry for Social Cognition and Fear in Humans. Journal of Neuroscience, 2005, 25, 11489-11493.	1.7	1,431
4	Hierarchical Organization of Human Cortical Networks in Health and Schizophrenia. Journal of Neuroscience, 2008, 28, 9239-9248.	1.7	1,138
5	Brain-Derived Neurotrophic Factor val⁶⁶met Polymorphism Affects Human Memory-Related Hippocampal Activity and Predicts Memory Performance. Journal of Neuroscience, 2003, 23, 6690-6694.	1.7	916
6	Catechol O-methyltransferase val158-met genotype and individual variation in the brain response to amphetamine. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6186-6191.	3.3	891
7	The Amygdala Response to Emotional Stimuli: A Comparison of Faces and Scenes. NeuroImage, 2002, 17, 317-323.	2.1	829
8	The Brain-Derived Neurotrophic Factor val66met Polymorphism and Variation in Human Cortical Morphology. Journal of Neuroscience, 2004, 24, 10099-10102.	1.7	807
9	Neural mechanisms of genetic risk for impulsivity and violence in humans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6269-6274.	3.3	793
10	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	13.7	772
11	Neocortical modulation of the amygdala response to fearful stimuli. Biological Psychiatry, 2003, 53, 494-501.	0.7	764
12	Prefrontal neurons and the genetics of schizophrenia. Biological Psychiatry, 2001, 50, 825-844.	0.7	708
13	Complexity of Prefrontal Cortical Dysfunction in Schizophrenia: More Than Up or Down. American Journal of Psychiatry, 2003, 160, 2209-2215.	4.0	644
14	Variation in DISC1 affects hippocampal structure and function and increases risk for schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8627-8632.	3.3	479
15	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	6.0	450
16	Age-related alterations in default mode network: Impact on working memory performance. Neurobiology of Aging, 2010, 31, 839-852.	1.5	444
17	Abnormal fMRI Response of the Dorsolateral Prefrontal Cortex in Cognitively Intact Siblings of Patients With Schizophrenia. American Journal of Psychiatry, 2003, 160, 709-719.	4.0	417
18	Variation in GRM3 affects cognition, prefrontal glutamate, and risk for schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12604-12609.	3.3	381

#	ARTICLE	IF	CITATIONS
19	A validated network of effective amygdala connectivity. NeuroImage, 2007, 36, 736-745.	2.1	360
20	Neural correlates of genetically abnormal social cognition in Williams syndrome. Nature Neuroscience, 2005, 8, 991-993.	7.1	325
21	Neurophysiological correlates of age-related changes in working memory capacity. Neuroscience Letters, 2006, 392, 32-37.	1.0	304
22	Functional Magnetic Resonance Imaging Brain Mapping in Psychiatry: Methodological Issues Illustrated in a Study of Working Memory in Schizophrenia. Neuropsychopharmacology, 1998, 18, 186-196.	2.8	293
23	Correction for vascular artifacts in cerebral blood flow values measured by using arterial spin tagging techniques. Magnetic Resonance in Medicine, 1997, 37, 226-235.	1.9	289
24	Interaction of COMT Val^{108/158}Met Genotype and Olanzapine Treatment on Prefrontal Cortical Function in Patients With Schizophrenia. American Journal of Psychiatry, 2004, 161, 1798-1805.	4.0	281
25	Effects of Dextroamphetamine on Cognitive Performance and Cortical Activation. NeuroImage, 2000, 12, 268-275.	2.1	274
26	Effect of Catechol-O-Methyltransferase val158met Genotype on Attentional Control. Journal of Neuroscience, 2005, 25, 5038-5045.	1.7	274
27	Dopamine Modulates the Response of the Human Amygdala: A Study in Parkinson's Disease. Journal of Neuroscience, 2002, 22, 9099-9103.	1.7	261
28	A primate-specific, brain isoform of KCNH2 affects cortical physiology, cognition, neuronal repolarization and risk of schizophrenia. Nature Medicine, 2009, 15, 509-518.	15.2	232
29	Tolcapone Improves Cognition and Cortical Information Processing in Normal Human Subjects. Neuropsychopharmacology, 2007, 32, 1011-1020.	2.8	219
30	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	7.1	213
31	Genetic evidence implicating DARPP-32 in human frontostriatal structure, function, and cognition. Journal of Clinical Investigation, 2007, 117, 672-682.	3.9	205
32	Dysfunctional Prefrontal Regional Specialization and Compensation in Schizophrenia. American Journal of Psychiatry, 2006, 163, 1969-1977.	4.0	201
33	Brain regions underlying response inhibition and interference monitoring and suppression. European Journal of Neuroscience, 2006, 23, 1658-1664.	1.2	195
34	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	9.4	192
35	Regionally Specific Neuronal Pathology in Untreated Patients with Schizophrenia: A Proton Magnetic Resonance Spectroscopic Imaging Study. Biological Psychiatry, 1998, 43, 641-648.	0.7	191
36	Neuronal pathology in the hippocampal area of patients with bipolar disorder: a study with proton magnetic resonance spectroscopic imaging. Biological Psychiatry, 2003, 53, 906-913.	0.7	191

#	ARTICLE	IF	CITATIONS
37	Is Gray Matter Volume an Intermediate Phenotype for Schizophrenia? A Voxel-Based Morphometry Study of Patients with Schizophrenia and Their Healthy Siblings. Biological Psychiatry, 2008, 63, 465-474.	0.7	179
38	Epistasis between catechol-O-methyltransferase and type II metabotropic glutamate receptor 3 genes on working memory brain function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12536-12541.	3.3	175
39	Altered Cortical Network Dynamics. Archives of General Psychiatry, 2011, 68, 1207.	13.8	161
40	Dextroamphetamine Modulates the Response of the Human Amygdala. Neuropsychopharmacology, 2002, 27, 1036-1040.	2.8	160
41	Genetic variation in AKT1 is linked to dopamine-associated prefrontal cortical structure and function in humans. Journal of Clinical Investigation, 2008, 118, 2200-8.	3.9	159
42	The effect of treatment with antipsychotic drugs on brain N-acetylaspartate measures in patients with schizophrenia. Biological Psychiatry, 2001, 49, 39-46.	0.7	158
43	Amphetamine Modulates Human Incentive Processing. Neuron, 2004, 43, 261-269.	3.8	158
44	Specific Relationship Between Prefrontal NeuronalN-Acetylaspartate and Activation of the Working Memory Cortical Network in Schizophrenia. American Journal of Psychiatry, 2000, 157, 26-33.	4.0	148
45	Dextroamphetamine Enhances â€œNeural Network-Specificâ€•Physiological Signals: A Positron-Emission Tomography rCBF Study. Journal of Neuroscience, 1996, 16, 4816-4822.	1.7	147
46	Uncoupling Cognitive Workload and Prefrontal Cortical Physiology: A PET rCBF Study. NeuroImage, 1998, 7, 296-303.	2.1	146
47	Heritability of Brain Morphology Related to Schizophrenia: A Large-Scale Automated Magnetic Resonance Imaging Segmentation Study. Biological Psychiatry, 2008, 63, 475-483.	0.7	134
48	Functional, structural, and metabolic abnormalities of the hippocampal formation in Williams syndrome. Journal of Clinical Investigation, 2005, 115, 1888-1895.	3.9	134
49	Catechol-O-Methyltransferase Val158Met Modulation of Prefrontalâ€“Parietalâ€“Striatal Brain Systems during Arithmetic and Temporal Transformations in Working Memory. Journal of Neuroscience, 2007, 27, 13393-13401.	1.7	132
50	Hippocampal N-acetyl aspartate in unaffected siblings of patients with schizophrenia: a possible intermediate neurobiological phenotype. Biological Psychiatry, 1998, 44, 941-950.	0.7	131
51	Functional changes in the activity of brain regions underlying emotion processing in the elderly. Psychiatry Research - Neuroimaging, 2005, 139, 9-18.	0.9	130
52	The G72/G30 Gene Complex and Cognitive Abnormalities in Schizophrenia. Neuropsychopharmacology, 2006, 31, 2022-2032.	2.8	127
53	Impact of interacting functional variants in COMT on regional gray matter volume in human brain. NeuroImage, 2009, 45, 44-51.	2.1	120
54	Functional Mapping of Human Sensorimotor Cortex with 3D BOLD fMRI Correlates Highly with H215O PET rCBF. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 755-764.	2.4	119

#	ARTICLE	IF	CITATIONS
55	Common Pattern of Cortical Pathology in Childhood-Onset and Adult-Onset Schizophrenia as Identified by Proton Magnetic Resonance Spectroscopic Imaging. American Journal of Psychiatry, 1998, 155, 1376-1383.	4.0	114
56	Evidence That Altered Amygdala Activity in Schizophrenia Is Related to Clinical State and Not Genetic Risk. American Journal of Psychiatry, 2009, 166, 216-225.	4.0	113
57	Selective Relationship Between PrefrontalN-Acetylaspartate Measures and Negative Symptoms in Schizophrenia. American Journal of Psychiatry, 2000, 157, 1646-1651.	4.0	108
58	False positives in imaging genetics. NeuroImage, 2008, 40, 655-661.	2.1	107
59	The relationship between dorsolateral prefrontal N-acetylaspartate measures and striatal dopamine activity in schizophrenia. Biological Psychiatry, 1999, 45, 660-667.	0.7	106
60	Allelic Variation in RGS4 Impacts Functional and Structural Connectivity in the Human Brain. Journal of Neuroscience, 2007, 27, 1584-1593.	1.7	98
61	Relative Risk of Neurological Signs in Siblings of Patients With Schizophrenia. American Journal of Psychiatry, 2001, 158, 1827-1834.	4.0	95
62	Neural Mechanisms Underlying Probabilistic Category Learning in Normal Aging. Journal of Neuroscience, 2005, 25, 11340-11348.	1.7	95
63	Selective updating of working memory content modulates meso-cortico-striatal activity. NeuroImage, 2011, 57, 1264-1272.	2.1	92
64	Cortical Systems Associated with Covert Music Rehearsal. NeuroImage, 2002, 16, 901-908.	2.1	87
65	fMRI Applications in Schizophrenia Research. NeuroImage, 1996, 4, S118-S126.	2.1	86
66	Hemispheric control of motor function: a whole brain echo planar fMRI study. Psychiatry Research - Neuroimaging, 1998, 83, 7-22.	0.9	86
67	Abnormal functional lateralization of the sensorimotor cortex in patients with schizophrenia. NeuroReport, 1997, 8, 2977-2984.	0.6	85
68	Age-related Alterations in Simple Declarative Memory and the Effect of Negative Stimulus Valence. Journal of Cognitive Neuroscience, 2009, 21, 1920-1933.	1.1	84
69	Regional Variations in Brain Gyrification Are Associated with General Cognitive Ability in Humans. Current Biology, 2016, 26, 1301-1305.	1.8	81
70	Integrated DNA methylation and gene expression profiling across multiple brain regions implicate novel genes in Alzheimerâ€™s disease. Acta Neuropathologica, 2019, 137, 557-569.	3.9	73
71	Fast 3D functional magnetic resonance imaging at 1.5 T with spiral acquisition. Magnetic Resonance in Medicine, 1996, 36, 620-626.	1.9	72
72	Modulatory Effects of Modafinil on Neural Circuits Regulating Emotion and Cognition. Neuropsychopharmacology, 2010, 35, 2101-2109.	2.8	70

#	ARTICLE	IF	CITATIONS
73	Reproducibility of Proton Magnetic Resonance Spectroscopic Imaging in Patients with Schizophrenia. Neuropsychopharmacology, 1998, 18, 1-9.	2.8	69
74	Functional lateralization of the sensorimotor cortex in patients with schizophrenia: effects of treatment with olanzapine. Biological Psychiatry, 2004, 56, 190-197.	0.7	69
75	Dissociating the effects of Sternberg working memory demands in prefrontal cortex. Psychiatry Research - Neuroimaging, 2007, 154, 103-114.	0.9	69
76	Neural Correlates of Probabilistic Category Learning in Patients with Schizophrenia. Journal of Neuroscience, 2009, 29, 1244-1254.	1.7	69
77	The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. Biological Psychiatry, 2019, 86, 545-556.	0.7	67
78	Automated Quality Assessment of Structural Magnetic Resonance Brain Images Based on a Supervised Machine Learning Algorithm. Frontiers in Neuroinformatics, 2016, 10, 52.	1.3	66
79	Neurobiology of cognitive aging: Insights from imaging genetics. Biological Psychology, 2008, 79, 9-22.	1.1	65
80	A comparison of fast MR scan techniques for cerebral activation studies at 1.5 Tesla. Magnetic Resonance in Medicine, 1998, 39, 61-67.	1.9	63
81	Quantitation of Regional Cerebral Blood Flow Increases during Motor Activation: A Steady-State Arterial Spin Tagging Study. NeuroImage, 1997, 6, 104-112.	2.1	61
82	Organization of the human motor system as studied by functional magnetic resonance imaging. European Journal of Radiology, 1999, 30, 105-114.	1.2	60
83	Complex relationship between BOLD signal and synchronization/desynchronization of human brain MEG oscillations. Human Brain Mapping, 2007, 28, 805-816.	1.9	60
84	Preferential Amygdala Reactivity to the Negative Assessment of Neutral Faces. Biological Psychiatry, 2009, 66, 847-853.	0.7	60
85	Instability of Prefrontal Signal Processing in Schizophrenia. American Journal of Psychiatry, 2006, 163, 1960-1968.	4.0	56
86	Comparison of 3D BOLD Functional MRI with Spiral Acquisition at 1.5 and 4.0 T. NeuroImage, 1999, 9, 446-451.	2.1	53
87	Prefrontal dysfunction in schizophrenia controlling for COMT Val158Met genotype and working memory performance. Psychiatry Research - Neuroimaging, 2006, 147, 221-226.	0.9	53
88	Effective connectivity of AKT1-mediated dopaminergic working memory networks and pharmacogenetics of anti-dopaminergic treatment. Brain, 2012, 135, 1436-1445.	3.7	53
89	Altered Hippocampal-Parahippocampal Function During Stimulus Encoding. JAMA Psychiatry, 2014, 71, 236.	6.0	53
90	Interactive Effect of Apolipoprotein E Genotype and Age on Hippocampal Activation During Memory Processing in Healthy Adults. Archives of General Psychiatry, 2012, 69, 804.	13.8	51

#	Article	IF	Citations
91	Association of a Schizophrenia-Risk Nonsynonymous Variant With Putamen Volume in Adolescents. JAMA Psychiatry, 2019, 76, 435.	6.0	51
92	Analysis of Interpolation Effects in the Reslicing of Functional MR Images. Journal of Computer Assisted Tomography, 1997, 21, 803-810.	0.5	47
93	Altered Cerebral Response During Cognitive Control: A Potential Indicator of Genetic Liability for Schizophrenia. Neuropsychopharmacology, 2013, 38, 846-853.	2.8	46
94	Catechol-O-Methyltransferase Valine158Methionine Polymorphism Modulates Brain Networks Underlying Working Memory Across Adulthood. Biological Psychiatry, 2009, 66, 540-548.	0.7	45
95	Imaging genetic influences in human brain function. Current Opinion in Neurobiology, 2004, 14, 239-247.	2.0	44
96	Neurophysiological correlates of age-related changes in working memory updating. NeuroImage, 2012, 62, 2151-2160.	2.1	44
97	Changing patterns of brain activation during maze learning. Brain Research, 1998, 793, 29-38.	1.1	42
98	Abnormalities in neural processing of emotional stimuli in Williams syndrome vary according to social vs. non-social content. NeuroImage, 2010, 50, 340-346.	2.1	40
99	Seeking Optimal Region-Of-Interest (ROI) Single-Value Summary Measures for fMRI Studies in Imaging Genetics. PLoS ONE, 2016, 11, e0151391.	1.1	38
100	Impact of the Brain-Derived Neurotrophic Factor Val66Met Polymorphism on Levels of Hippocampal N-Acetyl-Aspartate Assessed by Magnetic Resonance Spectroscopic Imaging at 3 Tesla. Biological Psychiatry, 2008, 64, 856-862.	0.7	36
101	Schizophrenia polygenic risk score predicts mnemonic hippocampal activity. Brain, 2018, 141, 1218-1228.	3.7	36
102	Quantitation of Regional Cerebral Blood Flow Increases in Prefrontal Cortex during a Working Memory Task: A Steady-State Arterial Spin-Tagging Study. NeuroImage, 1998, 8, 44-49.	2.1	34
103	Differentiating allocation of resources and conflict detection within attentional control processing. European Journal of Neuroscience, 2007, 25, 594-602.	1.2	33
104	Interactive Effects of DAOA (G72) and Catechol-O-Methyltransferase on Neurophysiology in Prefrontal Cortex. Biological Psychiatry, 2011, 69, 1006-1008.	0.7	33
105	The Interleukin 3 Gene (IL3) Contributes to Human Brain Volume Variation by Regulating Proliferation and Survival of Neural Progenitors. PLoS ONE, 2012, 7, e50375.	1.1	33
106	Late-Onset Alzheimerâ€™s Disease Polygenic Risk Profile Score Predicts Hippocampal Function. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 673-679.	1.1	32
107	Localized echo-volume imaging methods for functional MRI. Journal of Magnetic Resonance Imaging, 1997, 7, 371-375.	1.9	31
108	DISC1 and SLC12A2 interaction affects human hippocampal function and connectivity. Journal of Clinical Investigation, 2013, 123, 2961-2964.	3.9	30

#	Article	IF	Citations
109	Imaging Genetics of Brain Longevity and Mental Wellness: The Next Frontier?. Radiology, 2008, 246, 20-32.	3.6	29
110	WWC1 Genotype Modulates Age-Related Decline in Episodic Memory Function Across the Adult Life Span. Biological Psychiatry, 2014, 75, 693-700.	0.7	28
111	Normal aging modulates prefrontoparietal networks underlying multiple memory processes. European Journal of Neuroscience, 2012, 36, 3559-3567.	1.2	26
112	Brain Tau Imaging: Food and Drug Administration Approval of ¹⁸F-Flortaucipir Injection. Journal of Nuclear Medicine, 2020, 61, 1411-1412.	2.8	26
113	3D Bolus Tracking with Frequency-Shifted BURST MRI. Journal of Computer Assisted Tomography, 1994, 18, 680-687.	0.5	25
114	Effects of Neuregulin 3 Genotype on Human Prefrontal Cortex Physiology. Journal of Neuroscience, 2014, 34, 1051-1056.	1.7	25
115	Genetic risk mechanisms of posttraumatic stress disorder in the human brain. Journal of Neuroscience Research, 2018, 96, 21-30.	1.3	24
116	Functional Magnetic Resonance Neuroimaging Data Acquisition Techniques. NeuroImage, 1996, 4, S76-S83.	2.1	22
117	Genetic Variation in FGF20 Modulates Hippocampal Biology. Journal of Neuroscience, 2010, 30, 5992-5997.	1.7	21
118	No Effect of a Common Allelic Variant in the Reelin Gene on Intermediate Phenotype Measures of Brain Structure, Brain Function, and Gene Expression. Biological Psychiatry, 2010, 68, 105-107.	0.7	20
119	Effect of Schizophrenia Risk-Associated Alleles in SREB2 (GPR85) on Functional MRI Phenotypes in Healthy Volunteers. Neuropsychopharmacology, 2013, 38, 341-349.	2.8	19
120	Neurogenetic Effects of OXTR rs2254298 in the Extended Limbic System of Healthy Caucasian Adults. Biological Psychiatry, 2011, 70, e37-e39.	0.7	19
121	Technical Solution for an Interactive Functional MR Imaging Examination: Application to a Physiologic Interview and the Study of Cerebral Physiology. Radiology, 1999, 210, 260-268.	3.6	14
122	A variable number of tandem repeats in the 3â€²â€untranslated region of the dopamine transporter modulates striatal function during working memory updating across the adult age span. European Journal of Neuroscience, 2015, 42, 1912-1918.	1.2	14
123	Intelligence, educational attainment, and brain structure in those at familial highâ€risk for schizophrenia or bipolar disorder. Human Brain Mapping, 2022, 43, 414-430.	1.9	14
124	Effect of Tolcapone on Brain Activity During a Variable Attentional Control Task: A Double-Blind, Placebo-Controlled, Counter-Balanced Trial in Healthy Volunteers. CNS Drugs, 2013, 27, 663-673.	2.7	13
125	KCNH2-3.1 mediates aberrant complement activation and impaired hippocampal-medial prefrontal circuitry associated with working memory deficits. Molecular Psychiatry, 2020, 25, 206-229.	4.1	13
126	Dopaminergic therapy removal differentially effects learning in schizophrenia and Parkinsonâ€™s disease. Schizophrenia Research, 2013, 149, 162-166.	1.1	12

#	ARTICLE	IF	CITATIONS
127	Tolcapone Treatment for Cognitive and Behavioral Symptoms in Behavioral Variant Frontotemporal Dementia: A Placebo-Controlled Crossover Study. Journal of Alzheimer's Disease, 2020, 75, 1391-1403.	1.2	9
128	Sequence Variation Associated with SLC12A5 Gene Expression Is Linked to Brain Structure and Function in Healthy Adults. Cerebral Cortex, 2019, 29, 4654-4661.	1.6	7
129	Gallbladder Visualization During Technetium-99m RBC Blood Pool Imaging. Clinical Nuclear Medicine, 1988, 13, 515-516.	0.7	5
130	Going beyond the current neuroinformatics infrastructure. Frontiers in Neuroinformatics, 2015, 9, 15.	1.3	2
131	A generative-discriminative framework that integrates imaging, genetic, and diagnosis into coupled low dimensional space. NeuroImage, 2021, 238, 118200.	2.1	2
132	25. Cortical Information Processing in Patients With Schizophrenia is Modulated by Tolcapone: Role of COMT val158met Genotype. Schizophrenia Bulletin, 2017, 43, S17-S17.	2.3	1