

Nikolaos Koutsouleris

List of Publications by Year in descending order

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107
papers

7,642
citations

61984

43
h-index

58581

82
g-index

112
all docs

112
docs citations

112
times ranked

9102
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Approaches for Clinical Psychology and Psychiatry. Annual Review of Clinical Psychology, 2018, 14, 91-118.	12.3	520
2	BrainAGE in Mild Cognitive Impaired Patients: Predicting the Conversion to Alzheimer's Disease. PLoS ONE, 2013, 8, e67346.	2.5	412
3	Use of Neuroanatomical Pattern Classification to Identify Subjects in At-Risk Mental States of Psychosis and Predict Disease Transition. Archives of General Psychiatry, 2009, 66, 700.	12.3	382
4	Accelerated Brain Aging in Schizophrenia and Beyond: A Neuroanatomical Marker of Psychiatric Disorders. Schizophrenia Bulletin, 2014, 40, 1140-1153.	4.3	369
5	Prevention of Psychosis. JAMA Psychiatry, 2020, 77, 755.	11.0	287
6	Interaction of childhood stress with hippocampus and prefrontal cortex volume reduction in major depression. Journal of Psychiatric Research, 2010, 44, 799-807.	3.1	275
7	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. NeuroImage, 2020, 208, 116450.	4.2	260
8	Prediction Models of Functional Outcomes for Individuals in the Clinical High-Risk State for Psychosis or With Recent-Onset Depression. JAMA Psychiatry, 2018, 75, 1156.	11.0	251
9	Diagnostic neuroimaging across diseases. NeuroImage, 2012, 61, 457-463.	4.2	240
10	Genetics, Cognition, and Neurobiology of Schizotypal Personality: A Review of the Overlap with Schizophrenia. Frontiers in Psychiatry, 2014, 5, 18.	2.6	208
11	MRI signatures of brain age and disease over the lifespan based on a deep brain network and 14,468 individuals worldwide. Brain, 2020, 143, 2312-2324.	7.6	183
12	Detecting Neuroimaging Biomarkers for Schizophrenia: A Meta-Analysis of Multivariate Pattern Recognition Studies. Neuropsychopharmacology, 2015, 40, 1742-1751.	5.4	182
13	Childhood Stress, Serotonin Transporter Gene and Brain Structures in Major Depression. Neuropsychopharmacology, 2010, 35, 1383-1390.	5.4	175
14	Structural correlates of psychopathological symptom dimensions in schizophrenia: A voxel-based morphometric study. NeuroImage, 2008, 39, 1600-1612.	4.2	166
15	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. Brain, 2020, 143, 1027-1038.	7.6	158
16	Multisite prediction of 4-week and 52-week treatment outcomes in patients with first-episode psychosis: a machine learning approach. Lancet Psychiatry, 2016, 3, 935-946.	7.4	144
17	Disease Prediction in the At-Risk Mental State for Psychosis Using Neuroanatomical Biomarkers: Results From the FePsy Study. Schizophrenia Bulletin, 2012, 38, 1234-1246.	4.3	139
18	Detecting the Psychosis Prodrome Across High-Risk Populations Using Neuroanatomical Biomarkers. Schizophrenia Bulletin, 2015, 41, 471-482.	4.3	136

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19	Individualized differential diagnosis of schizophrenia and mood disorders using neuroanatomical biomarkers. <i>Brain</i> , 2015, 138, 2059-2073.	7.6	132
20	Multimodal Machine Learning Workflows for Prediction of Psychosis in Patients With Clinical High-Risk Syndromes and Recent-Onset Depression. <i>JAMA Psychiatry</i> , 2021, 78, 195.	11.0	125
21	Early Recognition and Disease Prediction in the At-Risk Mental States for Psychosis Using Neurocognitive Pattern Classification. <i>Schizophrenia Bulletin</i> , 2012, 38, 1200-1215.	4.3	121
22	Multisite Machine Learning Analysis Provides a Robust Structural Imaging Signature of Schizophrenia Detectable Across Diverse Patient Populations and Within Individuals. <i>Schizophrenia Bulletin</i> , 2018, 44, 1035-1044.	4.3	118
23	Detecting Neuroimaging Biomarkers for Depression: A Meta-analysis of Multivariate Pattern Recognition Studies. <i>Biological Psychiatry</i> , 2017, 82, 330-338.	1.3	116
24	Orbitofrontal volume reductions during emotion recognition in patients with major depression. <i>Journal of Psychiatry and Neuroscience</i> , 2010, 35, 311-320.	2.4	101
25	Childhood Trauma in Schizophrenia: Current Findings and Research Perspectives. <i>Frontiers in Neuroscience</i> , 2019, 13, 274.	2.8	99
26	Specific Substantial Dysconnectivity in Schizophrenia: A Transdiagnostic Multimodal Meta-analysis of Resting-State Functional and Structural Magnetic Resonance Imaging Studies. <i>Biological Psychiatry</i> , 2019, 85, 573-583.	1.3	93
27	Neuroanatomical correlates of different vulnerability states for psychosis and their clinical outcomes. <i>British Journal of Psychiatry</i> , 2009, 195, 218-226.	2.8	85
28	Anterior cingulate cortex gray matter abnormalities in adults with attention deficit hyperactivity disorder: A voxel-based morphometry study. <i>Psychiatry Research - Neuroimaging</i> , 2011, 191, 31-35.	1.8	82
29	Neuronal correlates of emotional processing in patients with major depression. <i>World Journal of Biological Psychiatry</i> , 2009, 10, 202-208.	2.6	81
30	Transcranial direct current stimulation in children and adolescents: a comprehensive review. <i>Journal of Neural Transmission</i> , 2016, 123, 1219-1234.	2.8	81
31	Classifying Schizophrenia Using Multimodal Multivariate Pattern Recognition Analysis: Evaluating the Impact of Individual Clinical Profiles on the Neurodiagnostic Performance. <i>Schizophrenia Bulletin</i> , 2016, 42, S110-S117.	4.3	78
32	Brain Subtyping Enhances The Neuroanatomical Discrimination of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2018, 44, 1060-1069.	4.3	78
33	Heterogeneity of Structural Brain Changes in Subtypes of Schizophrenia Revealed Using Magnetic Resonance Imaging Pattern Analysis. <i>Schizophrenia Bulletin</i> , 2015, 41, 74-84.	4.3	72
34	Distinguishing Prodromal From First-Episode Psychosis Using Neuroanatomical Single-Subject Pattern Recognition. <i>Schizophrenia Bulletin</i> , 2013, 39, 1105-1114.	4.3	64
35	Multi-outcome meta-analysis (MOMA) of cognitive remediation in schizophrenia: Revisiting the relevance of human coaching and elucidating interplay between multiple outcomes. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 828-845.	6.1	62
36	Use of neuroanatomical pattern regression to predict the structural brain dynamics of vulnerability and transition to psychosis. <i>Schizophrenia Research</i> , 2010, 123, 175-187.	2.0	58

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37	Predicting Response to Repetitive Transcranial Magnetic Stimulation in Patients With Schizophrenia Using Structural Magnetic Resonance Imaging: A Multisite Machine Learning Analysis. <i>Schizophrenia Bulletin</i> , 2018, 44, 1021-1034.	4.3	57
38	Translational machine learning for psychiatric neuroimaging. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 91, 113-121.	4.8	56
39	Association between brain structure and psychometric schizotypy in healthy individuals. <i>World Journal of Biological Psychiatry</i> , 2012, 13, 544-549.	2.6	54
40	Using neuroimaging to help predict the onset of psychosis. <i>NeuroImage</i> , 2017, 145, 209-217.	4.2	54
41	Differences in hippocampal volume between major depression and schizophrenia: a comparative neuroimaging study. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2010, 260, 127-137.	3.2	53
42	Individualized Diagnostic and Prognostic Models for Patients With Psychosis Risk Syndromes: A Meta-analytic View on the State of the Art. <i>Biological Psychiatry</i> , 2020, 88, 349-360.	1.3	51
43	Prediction of outcome in the psychosis prodrome using neuroanatomical pattern classification. <i>Schizophrenia Research</i> , 2016, 173, 159-165.	2.0	50
44	Predicting sporadic Alzheimer's disease progression via inherited Alzheimer's disease-informed machine learning. <i>Alzheimer's and Dementia</i> , 2020, 16, 501-511.	0.8	47
45	Neuroanatomical correlates of executive dysfunction in the at-risk mental state for psychosis. <i>Schizophrenia Research</i> , 2010, 123, 160-174.	2.0	46
46	An Investigation of Psychosis Subgroups With Prognostic Validation and Exploration of Genetic Underpinnings. <i>JAMA Psychiatry</i> , 2020, 77, 523.	11.0	39
47	European college of neuropsychopharmacology network on the prevention of mental disorders and mental health promotion (ECNP PMD-MHP). <i>European Neuropsychopharmacology</i> , 2019, 29, 1301-1311.	0.7	38
48	Neuroanatomical heterogeneity of schizophrenia revealed by semi-supervised machine learning methods. <i>Schizophrenia Research</i> , 2019, 214, 43-50.	2.0	38
49	Deep Generative Medical Image Harmonization for Improving Cross-Site Generalization in Deep Learning Predictors. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 908-916.	3.4	38
50	Traces of Trauma: A Multivariate Pattern Analysis of Childhood Trauma, Brain Structure, and Clinical Phenotypes. <i>Biological Psychiatry</i> , 2020, 88, 829-842.	1.3	35
51	A Multidimensional Neural Maturation Index Reveals Reproducible Developmental Patterns in Children and Adolescents. <i>Journal of Neuroscience</i> , 2020, 40, 1265-1275.	3.6	33
52	A Pattern of Cognitive Deficits Stratified for Genetic and Environmental Risk Reliably Classifies Patients With Schizophrenia From Healthy Control Subjects. <i>Biological Psychiatry</i> , 2020, 87, 697-707.	1.3	33
53	Toward Generalizable and Transdiagnostic Tools for Psychosis Prediction: An Independent Validation and Improvement of the NAPLS-2 Risk Calculator in the Multisite PRONIA Cohort. <i>Biological Psychiatry</i> , 2021, 90, 632-642.	1.3	32
54	Predicting Barriers to Treatment for Depression in a U.S. National Sample: A Cross-Sectional, Proof-of-Concept Study. <i>Psychiatric Services</i> , 2018, 69, 927-934.	2.0	31

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55	Towards clinical application of prediction models for transition to psychosis: A systematic review and external validation study in the PRONIA sample. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 125, 478-492.	6.1	31
56	Variation within the Huntington's Disease Gene Influences Normal Brain Structure. <i>PLoS ONE</i> , 2012, 7, e29809.	2.5	30
57	Consensus paper of the WFSBP Task Force on Biological Markers: Criteria for biomarkers and endophenotypes of schizophrenia part II: Cognition, neuroimaging and genetics. <i>World Journal of Biological Psychiatry</i> , 2016, 17, 406-428.	2.6	30
58	Machine Learning to Study Social Interaction Difficulties in ASD. <i>Frontiers in Robotics and AI</i> , 2019, 6, 132.	3.2	30
59	Counterpoint. Early intervention for psychosis risk syndromes: Minimizing risk and maximizing benefit. <i>Schizophrenia Research</i> , 2021, 227, 10-17.	2.0	28
60	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. <i>Medical Image Analysis</i> , 2022, 75, 102304.	11.6	28
61	Grey matter volume differences in non-affective psychosis and the effects of age of onset on grey matter volumes: A voxelwise study. <i>Schizophrenia Research</i> , 2015, 164, 74-82.	2.0	26
62	Effects of sedative drug use on the dopamine system: a systematic review and meta-analysis of in vivo neuroimaging studies. <i>Neuropsychopharmacology</i> , 2019, 44, 660-667.	5.4	26
63	Multivariate classification of schizophrenia and its familial risk based on load-dependent attentional control brain functional connectivity. <i>Neuropsychopharmacology</i> , 2020, 45, 613-621.	5.4	26
64	Multivariate patterns of brain-cognition associations relating to vulnerability and clinical outcome in the at-risk mental states for psychosis. <i>Human Brain Mapping</i> , 2012, 33, 2104-2124.	3.6	23
65	Deciphering reward-based decision-making in schizophrenia: A meta-analysis and behavioral modeling of the Iowa Gambling Task. <i>Schizophrenia Research</i> , 2019, 204, 7-15.	2.0	23
66	Sex Matters: A Multivariate Pattern Analysis of Sex- and Gender-Related Neuroanatomical Differences in Cis- and Transgender Individuals Using Structural Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2020, 30, 1345-1356.	2.9	23
67	Heterogeneity and Classification of Recent Onset Psychosis and Depression: A Multimodal Machine Learning Approach. <i>Schizophrenia Bulletin</i> , 2021, 47, 1130-1140.	4.3	23
68	Amygdala subnucleus volumes in psychosis high-risk state and first-episode psychosis. <i>Schizophrenia Research</i> , 2020, 215, 284-292.	2.0	22
69	In-vivo topography of structural alterations of the anterior cingulate in patients with schizophrenia: New findings and comparison with the literature. <i>Schizophrenia Research</i> , 2007, 96, 34-45.	2.0	21
70	Classifying individuals at high-risk for psychosis based on functional brain activity during working memory processing. <i>NeuroImage: Clinical</i> , 2015, 9, 555-563.	2.7	21
71	Neuroanatomical Predictors of Functional Outcome in Individuals at Ultra-High Risk for Psychosis. <i>Schizophrenia Bulletin</i> , 2016, 43, sbw086.	4.3	21
72	Clinical patterns differentially predict response to transcranial direct current stimulation (tDCS) and escitalopram in major depression: A machine learning analysis of the ELECT-TDCS study. <i>Journal of Affective Disorders</i> , 2020, 265, 460-467.	4.1	21

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73	Brain size and white matter content of cerebrospinal tracts determine the upper cervical cord area: evidence from structural brain MRI. <i>Neuroradiology</i> , 2013, 55, 963-970.	2.2	20
74	Aberrant striatal dopamine links topographically with cortico-thalamic dysconnectivity in schizophrenia. <i>Brain</i> , 2020, 143, 3495-3505.	7.6	20
75	Characterisation of age and polarity at onset in bipolar disorder. <i>British Journal of Psychiatry</i> , 2021, 219, 659-669.	2.8	20
76	Brief Report: Specificity of Interpersonal Synchrony Deficits to Autism Spectrum Disorder and Its Potential for Digitally Assisted Diagnostics. <i>Journal of Autism and Developmental Disorders</i> , 2022, 52, 3718-3726.	2.7	19
77	The network structure of schizotypy in the general population. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2021, 271, 635-645.	3.2	17
78	Systematic Review of Functional MRI Applications for Psychiatric Disease Subtyping. <i>Frontiers in Psychiatry</i> , 2021, 12, 665536.	2.6	17
79	Cognitive subtypes in recent onset psychosis: distinct neurobiological fingerprints?. <i>Neuropsychopharmacology</i> , 2021, 46, 1475-1483.	5.4	15
80	The intervention, the patient and the illness – Personalizing non-invasive brain stimulation in psychiatry. <i>Experimental Neurology</i> , 2021, 341, 113713.	4.1	15
81	Association between age of cannabis initiation and gray matter covariance networks in recent onset psychosis. <i>Neuropsychopharmacology</i> , 2021, 46, 1484-1493.	5.4	14
82	The Psychopathology and Neuroanatomical Markers of Depression in Early Psychosis. <i>Schizophrenia Bulletin</i> , 2021, 47, 249-258.	4.3	13
83	Neurocognitive and neuroanatomical maturation in the clinical high-risk states for psychosis: A pattern recognition study. <i>NeuroImage: Clinical</i> , 2019, 21, 101624.	2.7	11
84	The potential of precision psychiatry: what is in reach?. <i>British Journal of Psychiatry</i> , 2022, 220, 175-178.	2.8	11
85	A multivariate neuromonitoring approach to neuroplasticity-based computerized cognitive training in recent onset psychosis. <i>Neuropsychopharmacology</i> , 2021, 46, 828-835.	5.4	10
86	The progression of disorder-specific brain pattern expression in schizophrenia over 9 years. <i>NPJ Schizophrenia</i> , 2021, 7, 32.	3.6	10
87	Identifying multimodal signatures underlying the somatic comorbidity of psychosis: the COMMITMENT roadmap. <i>Molecular Psychiatry</i> , 2021, 26, 722-724.	7.9	7
88	Multimodal prognosis of negative symptom severity in individuals at increased risk of developing psychosis. <i>Translational Psychiatry</i> , 2021, 11, 312.	4.8	7
89	Acquisition and Use of “Priors”™ in Autism: Typical in Deciding Where to Look, Atypical in Deciding What Is There. <i>Journal of Autism and Developmental Disorders</i> , 2021, 51, 3744-3758.	2.7	7
90	Multivariate pattern analysis of brain structure predicts functional outcome after auditory-based cognitive training interventions. <i>NPJ Schizophrenia</i> , 2021, 7, 40.	3.6	6

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91	A machine learning approach to risk assessment for alcohol withdrawal syndrome. <i>European Neuropsychopharmacology</i> , 2020, 35, 61-70.	0.7	5
92	Brain Network Simulations Indicate Effects of Neuregulin-1 Genotype on Excitation-Inhibition Balance in Cortical Dynamics. <i>Cerebral Cortex</i> , 2021, 31, 2013-2025.	2.9	4
93	Modeling Social Sensory Processing During Social Computerized Cognitive Training for Psychosis Spectrum: The Resting-State Approach. <i>Frontiers in Psychiatry</i> , 2020, 11, 554475.	2.6	3
94	Relationships between global functioning and neuropsychological predictors in subjects at high risk of psychosis or with a recent onset of depression. <i>World Journal of Biological Psychiatry</i> , 2022, 23, 573-581.	2.6	3
95	Toward clinically useful models for individualised prognostication in psychosis. <i>The Lancet Digital Health</i> , 2019, 1, e244-e245.	12.3	2
96	Promises and Pitfalls of the New Era of Computational Behavioral Neuroscience. <i>Biological Psychiatry</i> , 2021, 89, 845-846.	1.3	2
97	Novel Gyrfication Networks Reveal Links with Psychiatric Risk Factors in Early Illness. <i>Cerebral Cortex</i> , 2021, , .	2.9	2
98	Appetitive aggression is associated with lateralized activation in nucleus accumbens. <i>Psychiatry Research - Neuroimaging</i> , 2022, 319, 111425.	1.8	2
99	Concept of the Munich/Augsburg Consortium Precision in Mental Health for the German Center of Mental Health. <i>Frontiers in Psychiatry</i> , 2022, 13, 815718.	2.6	2
100	Reply to: Sample Size, Model Robustness, and Classification Accuracy in Diagnostic Multivariate Neuroimaging Analyses. <i>Biological Psychiatry</i> , 2018, 84, e83-e84.	1.3	1
101	Impaired recovery in affective disorders and schizophrenia: sharing a common pathophysiology?. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2018, 268, 739-740.	3.2	1
102	S44. NEUROBIOLOGICAL FINGERPRINTS OF COGNITIVE SUBTYPES IN RECENT ONSET PSYCHOSIS PATIENTS. <i>Schizophrenia Bulletin</i> , 2020, 46, S49-S49.	4.3	1
103	Using combined environmentalâ€“clinical classification models to predict role functioning outcome in clinical high-risk states for psychosis and recent-onset depression. <i>British Journal of Psychiatry</i> , 2022, 220, 229-245.	2.8	1
104	Pattern of predictive features of continued cannabis use in patients with recent-onset psychosis and clinical high-risk for psychosis. <i>NPJ Schizophrenia</i> , 2022, 8, 19.	3.6	1
105	T137. CLASSIFICATION OF RECENT-ONSET PSYCHOSIS BASED ON RESTING-STATE FUNCTIONAL CONNECTIVITY AND THE RELATIONSHIP TO NEUROCOGNITIVE IMPAIRMENT. <i>Schizophrenia Bulletin</i> , 2018, 44, S168-S169.	4.3	0
106	Reply to: Individualized Diagnostic and Prognostic Models for Psychosis Risk Syndromes: Do Not Underestimate Antipsychotic Exposure. <i>Biological Psychiatry</i> , 2021, 90, e37-e38.	1.3	0
107	Detailed clinical phenotyping and generalisability in prognostic models of functioning in at-risk populations. <i>British Journal of Psychiatry</i> , 2021, , 1-4.	2.8	0