

Guray Erus

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/781679/publications.pdf>

Version: 2024-02-01

98
papers

6,370
citations

109137

35
h-index

79541

73
g-index

106
all docs

106
docs citations

106
times ranked

9414
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Intensive vs Standard Blood Pressure Control on Probable Dementia. JAMA - Journal of the American Medical Association, 2019, 321, 553.	3.8	786
2	White matter hyperintensities and imaging patterns of brain ageing in the general population. Brain, 2016, 139, 1164-1179.	3.7	314
3	Linked Sex Differences in Cognition and Functional Connectivity in Youth. Cerebral Cortex, 2015, 25, 2383-2394.	1.6	302
4	Association of Intensive vs Standard Blood Pressure Control With Cerebral White Matter Lesions. JAMA - Journal of the American Medical Association, 2019, 322, 524.	3.8	285
5	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. NeuroImage, 2020, 208, 116450.	2.1	260
6	Functional Maturation of the Executive System during Adolescence. Journal of Neuroscience, 2013, 33, 16249-16261.	1.7	225
7	Heterogeneous impact of motion on fundamental patterns of developmental changes in functional connectivity during youth. NeuroImage, 2013, 83, 45-57.	2.1	223
8	Mitigating head motion artifact in functional connectivity MRI. Nature Protocols, 2018, 13, 2801-2826.	5.5	211
9	MUSE: MULTI-atlas region Segmentation utilizing Ensembles of registration algorithms and parameters, and locally optimal atlas selection. NeuroImage, 2016, 127, 186-195.	2.1	210
10	Multi-Atlas Skull-Stripping. Academic Radiology, 2013, 20, 1566-1576.	1.3	196
11	Imaging Patterns of Brain Development and their Relationship to Cognition. Cerebral Cortex, 2015, 25, 1676-1684.	1.6	196
12	Right ventricle segmentation from cardiac MRI: A collation study. Medical Image Analysis, 2015, 19, 187-202.	7.0	189
13	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.	3.7	183
14	Impact of puberty on the evolution of cerebral perfusion during adolescence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8643-8648.	3.3	169
15	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. Brain, 2020, 143, 1027-1038.	3.7	158
16	Multisite Machine Learning Analysis Provides a Robust Structural Imaging Signature of Schizophrenia Detectable Across Diverse Patient Populations and Within Individuals. Schizophrenia Bulletin, 2018, 44, 1035-1044.	2.3	118
17	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. JAMA Psychiatry, 2016, 73, 515.	6.0	116
18	Advanced brain aging: relationship with epidemiologic and genetic risk factors, and overlap with Alzheimer disease atrophy patterns. Translational Psychiatry, 2016, 6, e775-e775.	2.4	113

#	ARTICLE	IF	CITATIONS
19	White matter lesions. <i>Neurology</i> , 2018, 91, e964-e975.	1.5	92
20	The Brain Chart of Aging: Machine-learning analytics reveals links between brain aging, white matter disease, amyloid burden, and cognition in the iSTAGING consortium of 10,216 harmonized MR scans. <i>Alzheimer's and Dementia</i> , 2021, 17, 89-102.	0.4	92
21	Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention. <i>Diabetes Care</i> , 2016, 39, 764-771.	4.3	79
22	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016, 12, 645-653.	0.4	72
23	White matter hyperintensities are more highly associated with preclinical Alzheimer's disease than imaging and cognitive markers of neurodegeneration. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2016, 4, 18-27.	1.2	71
24	Systematic Review of Structural and Functional Neuroimaging Findings in Children and Adults with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013, 8, 1429-1448.	2.2	69
25	Correlating Cognitive Decline with White Matter Lesion and Brain Atrophy Magnetic Resonance Imaging Measurements in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 48, 987-994.	1.2	67
26	Vascular risk factors, cerebrovascular reactivity, and the default-mode brain network. <i>NeuroImage</i> , 2015, 115, 7-16.	2.1	67
27	Heterogeneity of structural and functional imaging patterns of advanced brain aging revealed via machine learning methods. <i>Neurobiology of Aging</i> , 2018, 71, 41-50.	1.5	67
28	Sex differences in brain aging and predictors of neurodegeneration in cognitively healthy older adults. <i>Neurobiology of Aging</i> , 2019, 81, 146-156.	1.5	67
29	Association of Midlife Hearing Impairment With Late-Life Temporal Lobe Volume Loss. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2019, 145, 794.	1.2	65
30	Spatial Patterns of Structural Brain Changes in Type 2 Diabetic Patients and Their Longitudinal Progression With Intensive Control of Blood Glucose. <i>Diabetes Care</i> , 2015, 38, 97-104.	4.3	51
31	Effects of intensive versus standard blood pressure control on domain-specific cognitive function: a substudy of the SPRINT randomised controlled trial. <i>Lancet Neurology</i> , The, 2020, 19, 899-907.	4.9	50
32	Cardiorespiratory fitness and brain volume and white matter integrity. <i>Neurology</i> , 2015, 84, 2347-2353.	1.5	49
33	Longitudinally and inter-site consistent multi-atlas based parcellation of brain anatomy using harmonized atlases. <i>NeuroImage</i> , 2018, 166, 71-78.	2.1	47
34	Characterizing Heterogeneity in Neuroimaging, Cognition, Clinical Symptoms, and Genetics Among Patients With Late-Life Depression. <i>JAMA Psychiatry</i> , 2022, 79, 464.	6.0	47
35	Associations between cognitive and brain volume changes in cognitively normal older adults. <i>NeuroImage</i> , 2020, 223, 117289.	2.1	46
36	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease. <i>JAMA Neurology</i> , 2021, 78, 568.	4.5	44

#	ARTICLE	IF	CITATIONS
37	Differential Associations of Socioeconomic Status With Global Brain Volumes and White Matter Lesions in African American and White Adults: the HANDLS SCAN Study. <i>Psychosomatic Medicine</i> , 2017, 79, 327-335.	1.3	42
38	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.	1.9	38
39	A deep learning framework identifies dimensional representations of Alzheimer's Disease from brain structure. <i>Nature Communications</i> , 2021, 12, 7065.	5.8	38
40	Relationship between APOE Genotype and Structural MRI Measures throughout Adulthood in the Study of Health in Pomerania Population-Based Cohort. <i>American Journal of Neuroradiology</i> , 2016, 37, 1636-1642.	1.2	36
41	Regional tract-specific white matter hyperintensities are associated with patterns of aging-related brain atrophy via vascular risk factors, but also independently. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 278-284.	1.2	35
42	Predictors of neurodegeneration differ between cognitively normal and subsequently impaired older adults. <i>Neurobiology of Aging</i> , 2019, 75, 178-186.	1.5	35
43	Brain extraction on MRI scans in presence of diffuse glioma: Multi-institutional performance evaluation of deep learning methods and robust modality-agnostic training. <i>NeuroImage</i> , 2020, 220, 117081.	2.1	35
44	State-dependent microstructural white matter changes in drug-naïve patients with first-episode psychosis. <i>Psychological Medicine</i> , 2017, 47, 2613-2627.	2.7	34
45	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. <i>Biological Psychiatry</i> , 2020, 87, 473-482.	0.7	34
46	A Multidimensional Neural Maturation Index Reveals Reproducible Developmental Patterns in Children and Adolescents. <i>Journal of Neuroscience</i> , 2020, 40, 1265-1275.	1.7	33
47	Precision diagnostics based on machine learning-derived imaging signatures. <i>Magnetic Resonance Imaging</i> , 2019, 64, 49-61.	1.0	31
48	Brain Magnetic Resonance Imaging Findings in Children and Young Adults With CKD. <i>American Journal of Kidney Diseases</i> , 2018, 72, 349-359.	2.1	29
49	White matter microstructure, white matter lesions, and hypertension: An examination of early surrogate markers of vascular-related brain change in midlife. <i>NeuroImage: Clinical</i> , 2018, 18, 753-761.	1.4	29
50	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. <i>Medical Image Analysis</i> , 2022, 75, 102304.	7.0	28
51	Diagnostic potential of structural neuroimaging for depression from a multi-ethnic community sample. <i>BJPsych Open</i> , 2016, 2, 247-254.	0.3	27
52	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	26
53	Disparities in Diffuse Cortical White Matter Integrity Between Socioeconomic Groups. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 198.	1.0	24
54	Lifetime discrimination burden, racial discrimination, and subclinical cerebrovascular disease among African Americans. <i>Health Psychology</i> , 2019, 38, 63-74.	1.3	24

#	ARTICLE	IF	CITATIONS
55	A comparison of Freesurfer and multi-atlas MUSE for brain anatomy segmentation: Findings about size and age bias, and inter-scanner stability in multi-site aging studies. <i>NeuroImage</i> , 2020, 223, 117248.	2.1	23
56	Individualized statistical learning from medical image databases: Application to identification of brain lesions. <i>Medical Image Analysis</i> , 2014, 18, 542-554.	7.0	22
57	Occupational cognitive complexity in earlier adulthood is associated with brain structure and cognitive health in midlife: The CARDIA study.. <i>Neuropsychology</i> , 2018, 32, 895-905.	1.0	22
58	Dorsolateral prefrontal cortex volume as a mediator between socioeconomic status and executive function.. <i>Neuropsychology</i> , 2018, 32, 985-995.	1.0	21
59	Association of Brain Volumes and White Matter Injury With Race, Ethnicity, and Cardiovascular Risk Factors: The Multi-ethnic Study of Atherosclerosis. <i>Journal of the American Heart Association</i> , 2022, 11, e023159.	1.6	21
60	Sex differences in the association between amyloid and longitudinal brain volume change in cognitively normal older adults. <i>NeuroImage: Clinical</i> , 2019, 22, 101769.	1.4	20
61	Capturing heterogeneous group differences using mixture-of-experts: Application to a study of aging. <i>NeuroImage</i> , 2016, 125, 498-514.	2.1	18
62	Neurobiological support to the diagnosis of <scp>ADHD</scp> in stimulant-naïve adults: pattern recognition analyses of <scp>MRI</scp> data. <i>Acta Psychiatrica Scandinavica</i> , 2017, 136, 623-636.	2.2	18
63	Cognitive Processing Speed Is Strongly Related to Driving Skills, Financial Abilities, and Other Instrumental Activities of Daily Living in Persons With Mild Cognitive Impairment and Mild Dementia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1829-1838.	1.7	18
64	A layered approach to learning coordination knowledge in multiagent environments. <i>Applied Intelligence</i> , 2007, 27, 249-267.	3.3	17
65	Poor awareness of IADL deficits is associated with reduced regional brain volume in older adults with cognitive impairment. <i>Neuropsychologia</i> , 2019, 129, 372-378.	0.7	17
66	Design and methods of the NiCK study: neurocognitive assessment and magnetic resonance imaging analysis of children and young adults with chronic kidney disease. <i>BMC Nephrology</i> , 2015, 16, 66.	0.8	14
67	White Matter Lesion Penumbra Shows Abnormalities on Structural and Physiologic MRIs in the Coronary Artery Risk Development in Young Adults Cohort. <i>American Journal of Neuroradiology</i> , 2019, 40, 1291-1298.	1.2	12
68	Brain age and Alzheimer's-like atrophy are domain-specific predictors of cognitive impairment in Parkinson's disease. <i>Neurobiology of Aging</i> , 2022, 109, 31-42.	1.5	12
69	Disentangling Alzheimer's disease neurodegeneration from typical brain ageing using machine learning. <i>Brain Communications</i> , 2022, 4, .	1.5	12
70	Skull-Stripping of Glioblastoma MRI Scans Using 3D Deep Learning. <i>Lecture Notes in Computer Science</i> , 2020, 11992, 57-68.	1.0	11
71	Sociodemographic disparities in corticolimbic structures. <i>PLoS ONE</i> , 2019, 14, e0216338.	1.1	10
72	How to involve structural modeling for cartographic object recognition tasks in high-resolution satellite images?. <i>Pattern Recognition Letters</i> , 2010, 31, 1109-1119.	2.6	9

#	ARTICLE	IF	CITATIONS
73	Abnormality Detection via Iterative Deformable Registration and Basis-Pursuit Decomposition. IEEE Transactions on Medical Imaging, 2016, 35, 1937-1951.	5.4	8
74	Association between urinary symptom severity and white matter plaque distribution in women with multiple sclerosis. Neurourology and Urodynamics, 2020, 39, 339-346.	0.8	8
75	Machine learning based imaging biomarkers in large scale population studies: A neuroimaging perspective. , 2020, , 379-399.		8
76	Changes in brain functional connectivity and cognition related to white matter lesion burden in hypertensive patients from SPRINT. Neuroradiology, 2021, 63, 913-924.	1.1	8
77	Red Cell Distribution Width, Anemia, and Brain Volumetric Outcomes Among Middle-Aged Adults. Journal of Alzheimer's Disease, 2021, 81, 711-727.	1.2	7
78	Brain Structure Among Middle-aged and Older Adults With Long-standing Type 1 Diabetes in the DCCT/EDIC Study. Diabetes Care, 2022, 45, 1779-1787.	4.3	7
79	Learning high-dimensional image statistics for abnormality detection on medical images. , 2010, , .		5
80	Automated segmentation of brain lesions by combining intensity and spatial information. , 2010, , .		4
81	Manifold-constrained embeddings for the detection of white matter lesions in brain MRI. , 2012, 2012, 562-565.		4
82	Vitamin D, Folate, and Cobalamin Serum Concentrations Are Related to Brain Volume and White Matter Integrity in Urban Adults. Frontiers in Aging Neuroscience, 2020, 12, 140.	1.7	4
83	Red cell distribution width, anemia and their associations with white matter integrity among middle-aged urban adults. Neurobiology of Aging, 2021, 105, 229-240.	1.5	4
84	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. , 2020, 11315, .		4
85	The Role of Race in Relations of Social Support to Hippocampal Volumes Among Older Adults. Research on Aging, 2022, 44, 205-214.	0.9	3
86	Classification of Structural Cartographic Objects Using Edge-Based Features. , 2007, , 385-392.		3
87	Race, sex, and mid-life changes in brain health: Cardia MRI substudy. Alzheimer's and Dementia, 2022, 18, 2428-2437.	0.4	3
88	What Makes New Ischemic Lesions Symptomatic after Aortic Valve Replacement?. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 2943-2948.	0.7	2
89	Elevated blood pressure is associated with advanced brain aging in mid-life: A 30-year follow-up of The CARDIA Study. Alzheimer's and Dementia, 2023, 19, 924-932.	0.4	2
90	Automatic Learning of Structural Models of Cartographic Objects. Lecture Notes in Computer Science, 2005, , 273-280.	1.0	1

#	ARTICLE	IF	CITATIONS
91	Automated segmentation of cortical necrosis using a wavelet based abnormality detection system. , 2011, 2011, 1391-1395.		1
92	Brain abnormality segmentation based on l_1 -norm minimization. Proceedings of SPIE, 2014, , .	0.8	1
93	T195. Neuroanatomical Heterogeneity of Schizophrenia Quantified via Semi-Supervised Machine Learning Reveals Two Distinct Subtypes: Results From the PHENOM Consortium. Biological Psychiatry, 2019, 85, S205-S206.	0.7	1
94	Association of hippocampal volume polygenic predictor score with baseline and change in brain volumes and cognition among cognitively healthy older adults. Neurobiology of Aging, 2020, 94, 81-88.	1.5	1
95	Patent Foramen Ovale Closure Decreases the Incidence but Not the Size of New Brain Infarction on Magnetic Resonance Imaging: An Analysis of the REDUCE Trial. Stroke, 2021, 52, 3419-3426.	1.0	1
96	Patterns of Structural Covariance Abnormalities and Clinical Correlations in Schizophrenia. Biological Psychiatry, 2021, 89, S371-S372.	0.7	0
97	Three Distinct Neuroanatomical Subtypes of Autism Spectrum Disorder, Revealed via Machine Learning, and Their Similarities With Schizophrenia Subtypes. Biological Psychiatry, 2021, 89, S374-S375.	0.7	0
98	P580. Two Schizophrenia Neuroanatomical Signatures From the PHENOM Consortium and Their Association With Psychopathology, Cognition, and Genetics in the Population-Level Samples. Biological Psychiatry, 2022, 91, S323-S324.	0.7	0