

Murat Bilgel

List of Publications by Year in descending order

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76
papers

2,243
citations

331670

21
h-index

233421

45
g-index

88
all docs

88
docs citations

88
times ranked

4197
citing authors

#	ARTICLE	IF	CITATIONS
1	Disease Burden Affects Aging Brain Function. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1810-1818.	3.6	3
2	Personality Associations With Amyloid and Tau: Results From the Baltimore Longitudinal Study of Aging and Meta-analysis. <i>Biological Psychiatry</i> , 2022, 91, 359-369.	1.3	23
3	Olfaction, Cognitive Impairment, and PET Biomarkers in Community-Dwelling Older Adults. <i>Journal of Alzheimer's Disease</i> , 2022, 86, 1275-1285.	2.6	17
4	Disentangling Alzheimer's disease neurodegeneration from typical brain ageing using machine learning. <i>Brain Communications</i> , 2022, 4, .	3.3	12
5	NiMARE: Neuroimaging Meta-Analysis Research Environment. , 2022, 1, 7.		24
6	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.	0.8	92
7	Bile acid synthesis, modulation, and dementia: A metabolomic, transcriptomic, and pharmacoepidemiologic study. <i>PLoS Medicine</i> , 2021, 18, e1003615.	8.4	38
8	Association of Lifestyle Activities with Functional Brain Connectivity and Relationship to Cognitive Decline among Older Adults. <i>Cerebral Cortex</i> , 2021, 31, 5637-5651.	2.9	13
9	Deconvolution-based partial volume correction of PET images with parallel level set regularization. <i>Physics in Medicine and Biology</i> , 2021, 66, 145003.	3.0	6
10	Voxel-based partial volume correction of PET images via subtle MRI guided non-local means regularization. <i>Physica Medica</i> , 2021, 89, 129-139.	0.7	5
11	Association of walking energetics with amyloid beta status: Findings from the Baltimore Longitudinal Study of Aging. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12228.	2.4	7
12	Computerized paired associate learning performance and imaging biomarkers in older adults without dementia. <i>Brain Imaging and Behavior</i> , 2021, , 1.	2.1	2
13	Vascular risk is not associated with PET measures of Alzheimer's disease neuropathology among cognitively normal older adults. <i>NeuroImage Reports</i> , 2021, 1, 100068.	1.0	7
14	Tau pathology mediates the effects of amyloid on cerebral blood flow and propagation of tau. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
15	Association of AD biomarker levels with functional connectivity within and between large-scale brain networks among cognitively normal individuals. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
16	Disentangling Alzheimer's disease neurodegeneration from typical brain aging using MRI and machine learning. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	2
17	Age of amyloid onset, but not amyloid accumulation rate, differs across APOE4 carriers vs. non-carriers in three cohorts and three methods. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
18	Association between basal forebrain tau and memory in older adults without dementia. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0

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19	Amyloid, but not tau, is associated with longitudinal change in white matter hyperintensities in a sample of cognitively normal older adults from the Baltimore Longitudinal Study of Aging. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0
20	Longitudinal evaluation of surrogates of regional cerebral blood flow computed from dynamic amyloid PET imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 288-297.	4.3	33
21	Lasting consequences of concussion on the aging brain: Findings from the Baltimore Longitudinal Study of Aging. <i>NeuroImage</i> , 2020, 221, 117182.	4.2	11
22	Early role of iron in modulating amyloid's association with neurodegeneration. <i>Neurology</i> , 2020, 95, 809-810.	1.1	0
23	Modeling the early accumulation of amyloid using differential equations in WRAP and BLSA. <i>Alzheimer's and Dementia</i> , 2020, 16, e039536.	0.8	0
24	Genetic associations with brain amyloidosis. <i>Alzheimer's and Dementia</i> , 2020, 16, e042191.	0.8	0
25	A predictive, modeling-based screening tool to enrich amyloid beta positivity in a cognitively normal sample. <i>Alzheimer's and Dementia</i> , 2020, 16, e045242.	0.8	0
26	Multimodal genome-wide meta-analysis of brain amyloidosis reveals heterogeneity across CSF, PET, and pathological amyloid measures. <i>Alzheimer's and Dementia</i> , 2020, 16, e046009.	0.8	0
27	Association Between Common Variants in <i>RBFOX1</i> , an RNA-Binding Protein, and Brain Amyloidosis in Early and Preclinical Alzheimer Disease. <i>JAMA Neurology</i> , 2020, 77, 1288.	9.0	41
28	Prediction of rapid amyloid and phosphorylated tau accumulation in cognitively healthy individuals. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020, 12, e12019.	2.4	10
29	Association of peripheral inflammatory markers with connectivity in large-scale functional brain networks of non-demented older adults. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 388-396.	4.1	27
30	Amyloid Positivity as a Risk Factor for Memory Decline and Lower Memory Performance as an Indicator of Conversion to Amyloid Positivity: Chicken and Egg. <i>Biological Psychiatry</i> , 2020, 87, 782-784.	1.3	2
31	Medial Temporal Tau Pathology Is Associated With Verbal Memory. <i>Innovation in Aging</i> , 2020, 4, 767-767.	0.1	0
32	Bile Acids in Dementia: Brain Amyloid, White Matter Lesions, and Atrophy. <i>Innovation in Aging</i> , 2020, 4, 767-768.	0.1	0
33	Extended multimodal whole-brain anatomical covariance analysis: detection of disrupted correlation networks related to amyloid deposition. <i>Heliyon</i> , 2019, 5, e02074.	3.2	4
34	Tau pathology in cognitively normal older adults. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 637-645.	2.4	37
35	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. <i>Radiology</i> , 2019, 292, 140-148.	7.3	20
36	Predicting time to dementia using a quantitative template of disease progression. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 205-215.	2.4	22

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37	Sex differences in the association between amyloid and longitudinal brain volume change in cognitively normal older adults. <i>NeuroImage: Clinical</i> , 2019, 22, 101769.	2.7	20
38	31â€Prediction of emerging amyloid and tau pathology in cognitively healthy individuals: a longitudinal CSF study. , 2019, , .		0
39	ICâ€â€108: WHITE MATTER HYPERINTENSITIES IN RELATION TO PATTERNS OF ACCELERATED BRAIN AGING, ADâ€LIKE ATROPHY AND AMYLOID BURDEN: RESULTS FROM THE ISTAGING CONSORTIUM ON MACHINE LEARNING AND LARGEâ€SCALE IMAGING ANALYTICS. <i>Alzheimer's and Dementia</i> , 2019, 15, P92.	0.8	0
40	Î²-amyloid deposition is associated with gait variability in usual aging. <i>Gait and Posture</i> , 2018, 61, 346-352.	1.4	15
41	The effect of rare variants in TREM2 and PLD3 on longitudinal cognitive function in the Wisconsin Registry for Alzheimer's Prevention. <i>Neurobiology of Aging</i> , 2018, 66, 177.e1-177.e5.	3.1	18
42	P3â€423: INDEPENDENT AND SYNERGISTIC EFFECTS OF AMYLOID PATHOLOGY AND HIPPOCAMPAL NEURODEGENERATION ON COGNITIVE CHANGE IN COGNITIVELY NORMAL OLDER ADULTS. <i>Alzheimer's and Dementia</i> , 2018, 14, P1271.	0.8	0
43	ICâ€â€021: MULTIVARIATE PATTERN ANALYSIS ON A LONGITUDINAL COHORT OF COGNITIVELY NORMAL ELDERLY REVEALS DISTINCT STAGES OF REGIONAL AMYLOID DEPOSITION. <i>Alzheimer's and Dementia</i> , 2018, 14, P26.	0.8	1
44	Voxel-based partial volume correction of amyloid PET images incorporating non-local means regularization. , 2018, , .		3
45	Vestibular Function and Beta-Amyloid Deposition in the Baltimore Longitudinal Study of Aging. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 408.	3.4	6
46	Early affective changes and increased connectivity in preclinical Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 471-479.	2.4	40
47	ICâ€â€001: SURROGATES OF REGIONAL CEREBRAL BLOOD FLOW COMPUTED FROM DYNAMIC AMYLOID PET IMAGING. <i>Alzheimer's and Dementia</i> , 2018, 14, P14.	0.8	0
48	Excessive daytime sleepiness and napping in cognitively normal adults: associations with subsequent amyloid deposition measured by PiB PET. <i>Sleep</i> , 2018, 41, .	1.1	53
49	Metabolic Syndrome and Amyloid Accumulation in the Aging Brain. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 629-639.	2.6	44
50	Effects of amyloid pathology and neurodegeneration on cognitive change in cognitively normal adults. <i>Brain</i> , 2018, 141, 2475-2485.	7.6	78
51	Î²-Amyloid Burden Predicts Lower Extremity Performance Decline in Cognitively Unimpaired Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, glw183.	3.6	23
52	Cross-Sectional and Longitudinal Effects of CREB1 Genotypes on Individual Differences in Memory and Executive Function: Findings from the BLSA. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 142.	3.4	10
53	Temporal Order of Alzheimerâ€™s Disease-Related Cognitive Marker Changes in BLSA and WRAP Longitudinal Studies. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1335-1347.	2.6	14
54	1141 EXCESSIVE DAYTIME SLEEPINESS, NAPPING, AND BRAIN AMYLOID IN OLDER ADULTS. <i>Sleep</i> , 2017, 40, A426-A426.	1.1	0

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55	Associations between Performance on Abbreviated CogState Battery, Other Measures of Cognitive Function, and Biomarkers in People at Risk for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1395-1408.	2.6	40
56	P3-273: Disease Burden Affects Aging Brain Function. <i>Alzheimer's and Dementia</i> , 2016, 12, P938.	0.8	0
57	P3-372: Longitudinal Effects of Creb1 Genotypes on Cognitive Function During Aging. <i>Alzheimer's and Dementia</i> , 2016, 12, P991.	0.8	0
58	O3-03-02: MCI STATUS, AMYLOID AND TAU BIOMARKERS, AND COMPOSITE COGNITIVE IMPAIRMENT SCORES ARE ASSOCIATED WITH COGSTATE PERFORMANCE IN THE WISCONSIN REGISTRY FOR ALZHEIMER'S PREVENTION. , 2016, 12, P285-P286.		0
59	A multivariate nonlinear mixed effects model for longitudinal image analysis: Application to amyloid imaging. <i>NeuroImage</i> , 2016, 134, 658-670.	4.2	68
60	Individual estimates of age at detectable amyloid onset for risk factor assessment. <i>Alzheimer's and Dementia</i> , 2016, 12, 373-379.	0.8	63
61	Temporal filtering of longitudinal brain magnetic resonance images for consistent segmentation. <i>NeuroImage: Clinical</i> , 2016, 11, 264-275.	2.7	4
62	Midlife adiposity predicts earlier onset of Alzheimer's dementia, neuropathology and presymptomatic cerebral amyloid accumulation. <i>Molecular Psychiatry</i> , 2016, 21, 910-915.	7.9	104
63	P4-187: Midlife adiposity predicts earlier onset of Alzheimer's dementia, neuropathology, and presymptomatic cerebral amyloid accumulation. , 2015, 11, P851-P852.		1
64	Changes in β 2 biomarkers and associations with APOE genotype in longitudinal cohorts. <i>Neurobiology of Aging</i> , 2015, 36, 2333-2339.	3.1	60
65	O2-09-04: Age at onset of amyloid accumulation in relation to ApoE genotype. , 2015, 11, P195-P196.		0
66	Voxelwise Relationships Between Distribution Volume Ratio and Cerebral Blood Flow: Implications for Analysis of β -Amyloid Images. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1042-1047.	5.0	11
67	Age differences in periventricular and deep white matter lesions. <i>Neurobiology of Aging</i> , 2015, 36, 1653-1658.	3.1	38
68	Deformation field correction for spatial normalization of PET images. <i>NeuroImage</i> , 2015, 119, 152-163.	4.2	4
69	Effect of white matter lesions on manual dexterity in healthy middle-aged persons. <i>Neurology</i> , 2015, 84, 1920-1926.	1.1	22
70	Temporal Trajectory and Progression Score Estimation from Voxelwise Longitudinal Imaging Measures: Application to Amyloid Imaging. <i>Lecture Notes in Computer Science</i> , 2015, 24, 424-436.	1.3	9
71	Extreme Deep White Matter Hyperintensity Volumes Are Associated with African American Race. <i>Cerebrovascular Diseases</i> , 2014, 37, 244-250.	1.7	47
72	Total Synthesis of a Functional Designer Eukaryotic Chromosome. <i>Science</i> , 2014, 344, 55-58.	12.6	486

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73	Trajectories of Alzheimer disease-related cognitive measures in a longitudinal sample. <i>Alzheimer's and Dementia</i> , 2014, 10, 735.	0.8	54
74	Deformation Field Correction for Spatial Normalization of PET Images Using a Population-Derived Partial Least Squares Model. <i>Lecture Notes in Computer Science</i> , 2014, 8679, 198-206.	1.3	3
75	Self-reported Sleep and β -Amyloid Deposition in Community-Dwelling Older Adults. <i>JAMA Neurology</i> , 2013, 70, 1537-43.	9.0	414
76	Automated anatomical labeling of the cerebral arteries using belief propagation. <i>Proceedings of SPIE</i> , 2013, 866918, .	0.8	16