Murat Bilgel

List of Publications by Year
in descending order

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	Total Synthesis of a Functional Designer Eukaryotic Chromosome. Science, 2014, 344, 55-58.	12.6	486
2	Self-reported Sleep and Î²-Amyloid Deposition in Community-Dwelling Older Adults. JAMA Neurology, 2013, 70, 1537-43.	9.0	414
3	Midlife adiposity predicts earlier onset of Alzheimerâ€™s dementia, neuropathology and presymptomatic cerebral amyloid accumulation. Molecular Psychiatry, 2016, 21, 910-915.	7.9	104
4	The Brain Chart of Aging: Machineâ€learning analytics reveals links between brain aging, white matter disease, amyloid burden, and cognition in the iSTAGING consortium of 10,216 harmonized MR scans. Alzheimer's and Dementia, 2021, 17, 89-102.	0.8	92
5	Effects of amyloid pathology and neurodegeneration on cognitive change in cognitively normal adults. Brain, 2018, 141, 2475-2485.	7.6	78
6	A multivariate nonlinear mixed effects model for longitudinal image analysis: Application to amyloid imaging. NeuroImage, 2016, 134, 658-670.	4.2	68
7	Individual estimates of age at detectable amyloid onset for risk factor assessment. Alzheimer's and Dementia, 2016, 12, 373-379.	0.8	63
8	Changes in AÎ² biomarkers and associations with APOE genotype in 2Âlongitudinal cohorts. Neurobiology of Aging, 2015, 36, 2333-2339.	3.1	60
9	Trajectories of Alzheimer diseaseâ€related cognitive measures in a longitudinal sample. Alzheimer's and Dementia, 2014, 10, 735.	0.8	54
10	Excessive daytime sleepiness and napping in cognitively normal adults: associations with subsequent amyloid deposition measured by PiB PET. Sleep, 2018, 41, .	1.1	53
11	Extreme Deep White Matter Hyperintensity Volumes Are Associated with African American Race. Cerebrovascular Diseases, 2014, 37, 244-250.	1.7	47
12	Metabolic Syndrome and Amyloid Accumulation in the Aging Brain. Journal of Alzheimer's Disease, 2018, 65, 629-639.	2.6	44
13	Association Between Common Variants in <i>RBFOX1</i>, an RNA-Binding Protein, and Brain Amyloidosis in Early and Preclinical Alzheimer Disease. JAMA Neurology, 2020, 77, 1288.	9.0	41
14	Associations between Performance onÂanÂAbbreviated CogState Battery, OtherÂMeasures of Cognitive Function, andÂBiomarkers in People at Risk forÂAlzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 1395-1408.	2.6	40
15	Early affective changes and increased connectivity in preclinical Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2018, 10, 471-479.	2.4	40
16	Age differences in periventricular and deep white matter lesions. Neurobiology of Aging, 2015, 36, 1653-1658.	3.1	38
17	Bile acid synthesis, modulation, and dementia: A metabolomic, transcriptomic, and pharmacoepidemiologic study. PLoS Medicine, 2021, 18, e1003615.	8.4	38
18	Tau pathology in cognitively normal older adults. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 637-645.	2.4	37

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19	Longitudinal evaluation of surrogates of regional cerebral blood flow computed from dynamic amyloid PET imaging. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 288-297.	4.3	33
20	Association of peripheral inflammatory markers with connectivity in large-scale functional brain networks of non-demented older adults. Brain, Behavior, and Immunity, 2020, 87, 388-396.	4.1	27
21	NiMARE: Neuroimaging Meta-Analysis Research Environment. , 2022, 1, 7.		24
22	Î²-Amyloid Burden Predicts Lower Extremity Performance Decline in Cognitively Unimpaired Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw183.	3.6	23
23	Personality Associations With Amyloid and Tau: Results From the Baltimore Longitudinal Study of Aging and Meta-analysis. Biological Psychiatry, 2022, 91, 359-369.	1.3	23
24	Effect of white matter lesions on manual dexterity in healthy middle-aged persons. Neurology, 2015, 84, 1920-1926.	1.1	22
25	Predicting time to dementia using a quantitative template of disease progression. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 205-215.	2.4	22
26	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. Radiology, 2019, 292, 140-148.	7.3	20
27	Sex differences in the association between amyloid and longitudinal brain volume change in cognitively normal older adults. NeuroImage: Clinical, 2019, 22, 101769.	2.7	20
28	The effect of rare variants in TREM2 and PLD3 on longitudinal cognitive function in the Wisconsin Registry for Alzheimer's Prevention. Neurobiology of Aging, 2018, 66, 177.e1-177.e5.	3.1	18
29	Olfaction, Cognitive Impairment, and PET Biomarkers in Community-Dwelling Older Adults. Journal of Alzheimer's Disease, 2022, 86, 1275-1285.	2.6	17
30	Automated anatomical labeling of the cerebral arteries using belief propagation. Proceedings of SPIE, 2013, 866918, .	0.8	16
31	Î²-amyloid deposition is associated with gait variability in usual aging. Gait and Posture, 2018, 61, 346-352.	1.4	15
32	Temporal Order of Alzheimerâ€™s Disease-Related Cognitive Marker Changes in BLSA and WRAP Longitudinal Studies. Journal of Alzheimer's Disease, 2017, 59, 1335-1347.	2.6	14
33	Association of Lifestyle Activities with Functional Brain Connectivity and Relationship to Cognitive Decline among Older Adults. Cerebral Cortex, 2021, 31, 5637-5651.	2.9	13
34	Disentangling Alzheimerâ€™s disease neurodegeneration from typical brain ageing using machine learning. Brain Communications, 2022, 4, .	3.3	12
35	Voxelwise Relationships Between Distribution Volume Ratio and Cerebral Blood Flow: Implications for Analysis of Î²-Amyloid Images. Journal of Nuclear Medicine, 2015, 56, 1042-1047.	5.0	11
36	Lasting consequences of concussion on the aging brain: Findings from the Baltimore Longitudinal Study of Aging. NeuroImage, 2020, 221, 117182.	4.2	11

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37	Cross-Sectional and Longitudinal Effects of CREB1 Genotypes on Individual Differences in Memory and Executive Function: Findings from the BLSA. Frontiers in Aging Neuroscience, 2017, 9, 142.	3.4	10
38	Prediction of rapid amyloid and phosphorylated‑Tau accumulation in cognitively healthy individuals. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12019.	2.4	10
39	Temporal Trajectory and Progression Score Estimation from Voxelwise Longitudinal Imaging Measures: Application to Amyloid Imaging. Lecture Notes in Computer Science, 2015, 24, 424-436.	1.3	9
40	Association of walking energetics with amyloid beta status: Findings from the Baltimore Longitudinal Study of Aging. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12228.	2.4	7
41	Vascular risk is not associated with PET measures of Alzheimer's disease neuropathology among cognitively normal older adults. NeuroImage Reports, 2021, 1, 100068.	1.0	7
42	Vestibular Function and Beta-Amyloid Deposition in the Baltimore Longitudinal Study of Aging. Frontiers in Aging Neuroscience, 2018, 10, 408.	3.4	6
43	Deconvolution-based partial volume correction of PET images with parallel level set regularization. Physics in Medicine and Biology, 2021, 66, 145003.	3.0	6
44	Voxel-based partial volume correction of PET images via subtle MRI guided non-local means regularization. Physica Medica, 2021, 89, 129-139.	0.7	5
45	Deformation field correction for spatial normalization of PET images. NeuroImage, 2015, 119, 152-163.	4.2	4
46	Temporal filtering of longitudinal brain magnetic resonance images for consistent segmentation. NeuroImage: Clinical, 2016, 11, 264-275.	2.7	4
47	Extended multimodal whole-brain anatomical covariance analysis: detection of disrupted correlation networks related to amyloid deposition. Heliyon, 2019, 5, e02074.	3.2	4
48	Voxel-based partial volume correction of amyloid PET images incorporating non-local means regularization. , 2018, , .		3
49	Disease Burden Affects Aging Brain Function. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1810-1818.	3.6	3
50	Deformation Field Correction for Spatial Normalization of PET Images Using a Population-Derived Partial Least Squares Model. Lecture Notes in Computer Science, 2014, 8679, 198-206.	1.3	3
51	Amyloid Positivity as a Risk Factor for Memory Decline and Lower Memory Performance as an Indicator of Conversion to Amyloid Positivity: Chicken and Egg. Biological Psychiatry, 2020, 87, 782-784.	1.3	2
52	Computerized paired associate learning performance and imaging biomarkers in older adults without dementia. Brain Imaging and Behavior, 2021, , 1.	2.1	2
53	Disentangling Alzheimer's disease neurodegeneration from typical brain aging using MRI and machine learning. Alzheimer's and Dementia, 2021, 17, .	0.8	2
54	P4-187: Midlife adiposity predicts earlier onset of Alzheimer's dementia, neuropathology, and presymptomatic cerebral amyloid accumulation. , 2015, 11, P851-P852.		1

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55	ICâ€Pâ€021: MULTIVARIATE PATTERN ANALYSIS ON A LONGITUDINAL COHORT OF COGNITIVELY NORMAL ELDERLY REVEALS DISTINCT STAGES OF REGIONAL AMYLOID DEPOSITION. Alzheimer's and Dementia, 2018, 14, P26.	0.8	1
56	O2-09-04: Age at onset of amyloid accumulation in relation to ApoE genotype. , 2015, 11, P195-P196.		0
57	P3â€273: Disease Burden Affects Aging Brain Function. Alzheimer's and Dementia, 2016, 12, P938.	0.8	0
58	P3â€372: Longitudinal Effects of Creb1 Genotypes on Cognitive Function During Aging. Alzheimer's and Dementia, 2016, 12, P991.	0.8	0
59	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
60	1141 EXCESSIVE DAYTIME SLEEPINESS, NAPPING, AND BRAIN AMYLOID IN OLDER ADULTS. Sleep, 2017, 40, A426-A426.	1.1	0
61	P3â€423: INDEPENDENT AND SYNERGISTIC EFFECTS OF AMYLOID PATHOLOGY AND HIPPOCAMPAL NEURODEGENERATION ON COGNITIVE CHANGE IN COGNITIVELY NORMAL OLDER ADULTS. Alzheimer's and Dementia, 2018, 14, P1271.	0.8	0
62	ICâ€Pâ€001: SURROGATES OF REGIONAL CEREBRAL BLOOD FLOW COMPUTED FROM DYNAMIC AMYLOID PET IMAGING. Alzheimer's and Dementia, 2018, 14, P14.	0.8	0
63	31â€…Prediction of emerging amyloid and tau pathology in cognitively healthy individuals: a longitudinal CSF study. , 2019, , .		0
64	ICâ€Pâ€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. Alzheimer's and Dementia, 2019, 15, P92.	0.8	0
65	Early role of iron in modulating amyloid's association with neurodegeneration. Neurology, 2020, 95, 809-810.	1.1	0
66	Modeling the early accumulation of amyloid using differential equations in WRAP and BLSA. Alzheimer's and Dementia, 2020, 16, e039536.	0.8	0
67	Genetic associations with brain amyloidosis. Alzheimer's and Dementia, 2020, 16, e042191.	0.8	0
68	A predictive, modelingâ€based screening tool to enrich amyloid beta positivity in a cognitively normal sample. Alzheimer's and Dementia, 2020, 16, e045242.	0.8	0
69	Multimodal genomeâ€wide metaâ€analysis of brain amyloidosis reveals heterogeneity across CSF, PET, and pathological amyloid measures. Alzheimer's and Dementia, 2020, 16, e046009.	0.8	0
70	Medial Temporal Tau Pathology Is Associated With Verbal Memory. Innovation in Aging, 2020, 4, 767-767.	0.1	0
71	Bile Acids in Dementia: Brain Amyloid, White Matter Lesions, and Atrophy. Innovation in Aging, 2020, 4, 767-768.	0.1	0
72	Tau pathology mediates the effects of amyloid on cerebral blood flow and propagation of tau. Alzheimer's and Dementia, 2021, 17, .	0.8	0

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73	Association of AD biomarker levels with functional connectivity within and between large‐scale brain networks among cognitively normal individuals. Alzheimer's and Dementia, 2021, 17, .	0.8	0
74	Age of amyloid onset, but not amyloid accumulation rate, differs across APOE‐ε4 carriers vs. non‐carriers in three cohorts and three methods. Alzheimer's and Dementia, 2021, 17, .	0.8	0
75	Association between basal forebrain tau and memory in older adults without dementia. Alzheimer's and Dementia, 2021, 17, .	0.8	0
76	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. Alzheimer's and Dementia, 2021, 17, .	0.8	0