

Changiz Geula

List of Publications by Year in descending order

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92
papers

9,298
citations

57758

44
h-index

40979

93
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96
all docs

96
docs citations

96
times ranked

10538
citing authors

#	ARTICLE	IF	CITATIONS
1	Ccr2 deficiency impairs microglial accumulation and accelerates progression of Alzheimer-like disease. <i>Nature Medicine</i> , 2007, 13, 432-438.	30.7	784
2	Neurobiology of butyrylcholinesterase. <i>Nature Reviews Neuroscience</i> , 2003, 4, 131-138.	10.2	719
3	Aging renders the brain vulnerable to amyloid β -protein neurotoxicity. <i>Nature Medicine</i> , 1998, 4, 827-831.	30.7	524
4	Nucleus basalis (Ch4) and cortical cholinergic innervation in the human brain: Observations based on the distribution of acetylcholinesterase and choline acetyltransferase. <i>Journal of Comparative Neurology</i> , 1988, 275, 216-240.	1.6	478
5	A CD36-initiated Signaling Cascade Mediates Inflammatory Effects of β -Amyloid. <i>Journal of Biological Chemistry</i> , 2002, 277, 47373-47379.	3.4	302
6	Human reticular formation: Cholinergic neurons of the pedunclopontine and laterodorsal tegmental nuclei and some cytochemical comparisons to forebrain cholinergic neurons. <i>Journal of Comparative Neurology</i> , 1989, 283, 611-633.	1.6	287
7	Asymmetry and heterogeneity of Alzheimer's and frontotemporal pathology in primary progressive aphasia. <i>Brain</i> , 2014, 137, 1176-1192.	7.6	283
8	Primary progressive aphasia and the evolving neurology of the language network. <i>Nature Reviews Neurology</i> , 2014, 10, 554-569.	10.1	269
9	Differential cholinergic innervation within functional subdivisions of the human cerebral cortex: A choline acetyltransferase study. <i>Journal of Comparative Neurology</i> , 1992, 318, 316-328.	1.6	256
10	Glioblastoma stem cell-derived exosomes induce M2 macrophages and PD-L1 expression on human monocytes. <i>Oncolmmunology</i> , 2018, 7, e1412909.	4.6	247
11	Neuroglial cholinesterases in the normal brain and in Alzheimer's disease: Relationship to plaques, tangles, and patterns of selective vulnerability. <i>Annals of Neurology</i> , 1993, 34, 373-384.	5.3	209
12	Cortical cholinergic fibers in aging and Alzheimer's disease: A morphometric study. <i>Neuroscience</i> , 1989, 33, 469-481.	2.3	192
13	Systematic Regional Variations in the Loss of Cortical Cholinergic Fibers in Alzheimer's Disease. <i>Cerebral Cortex</i> , 1996, 6, 165-177.	2.9	191
14	Cholinesterases and the Pathology of Alzheimer Disease. <i>Alzheimer Disease and Associated Disorders</i> , 1995, 9, 23-28.	1.3	172
15	Cholinergic Neuronal and Axonal Abnormalities Are Present Early in Aging and in Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008, 67, 309-318.	1.7	172
16	Differential localization of nadph-diaphorase and calbindin-D28k within the cholinergic neurons of the basal forebrain, striatum and brainstem in the rat, monkey, baboon and human. <i>Neuroscience</i> , 1993, 54, 461-476.	2.3	167
17	Anatomy of cholinesterase inhibition in Alzheimer's disease: Effect of physostigmine and tetrahydroaminoacridine on plaques and tangles. <i>Annals of Neurology</i> , 1987, 22, 683-691.	5.3	165
18	DJ-1 Transcriptionally Up-regulates the Human Tyrosine Hydroxylase by Inhibiting the Sumoylation of Pyrimidine Tract-binding Protein-associated Splicing Factor. <i>Journal of Biological Chemistry</i> , 2006, 281, 20940-20948.	3.4	162

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19	Abnormalities of neural circuitry in Alzheimer's disease. <i>Neurology</i> , 1998, 51, S18-29; discussion S65-7.	1.1	160
20	Neuronal amyloid- β^2 accumulation within cholinergic basal forebrain in ageing and Alzheimer's disease. <i>Brain</i> , 2015, 138, 1722-1737.	7.6	155
21	Cholinergic innervation of the human striatum, globus pallidus, subthalamic nucleus, substantia nigra, and red nucleus. <i>Journal of Comparative Neurology</i> , 1992, 323, 252-268.	1.6	154
22	Cholinergic innervation of the human thalamus: Dual origin and differential nuclear distribution. <i>Journal of Comparative Neurology</i> , 1992, 325, 68-82.	1.6	149
23	The acute neurotoxicity and effects upon cholinergic axons of intracerebrally injected β^2 -amyloid in the rat brain. <i>Neurobiology of Aging</i> , 1992, 13, 553-559.	3.1	127
24	Youthful Memory Capacity in Old Brains: Anatomic and Genetic Clues from the Northwestern SuperAging Project. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 29-36.	2.3	126
25	Clinically concordant variations of Alzheimer pathology in aphasic versus amnesic dementia. <i>Brain</i> , 2012, 135, 1554-1565.	7.6	123
26	Amyloid- β^2 deposits in the cerebral cortex of the aged common marmoset (<i>Callithrix jacchus</i>): incidence and chemical composition. <i>Acta Neuropathologica</i> , 2002, 103, 48-58.	7.7	111
27	Morphometric and Histologic Substrates of Cingulate Integrity in Elders with Exceptional Memory Capacity. <i>Journal of Neuroscience</i> , 2015, 35, 1781-1791.	3.6	109
28	Age-related changes in calbindin-D28k, calretinin, and parvalbumin-immunoreactive neurons in the human cerebral cortex. <i>Experimental Neurology</i> , 2003, 182, 220-231.	4.1	108
29	Acetylcholinesterase-rich neurons of the human cerebral cortex: Cytoarchitectonic and ontogenetic patterns of distribution. <i>Journal of Comparative Neurology</i> , 1991, 306, 193-220.	1.6	103
30	Potential genetic modifiers of disease risk and age at onset in patients with frontotemporal lobar degeneration and GRN mutations: a genome-wide association study. <i>Lancet Neurology</i> , The, 2018, 17, 548-558.	10.2	97
31	Overlap between acetylcholinesterase-rich and choline acetyltransferase-positive (cholinergic) axons in human cerebral cortex. <i>Brain Research</i> , 1992, 577, 112-120.	2.2	94
32	Acetylcholinesterase-rich pyramidal neurons in the human neocortex and hippocampus: Absence at birth, development during the life span, and dissolution in Alzheimer's disease. <i>Annals of Neurology</i> , 1988, 24, 765-773.	5.3	90
33	Age-related loss of calcium buffering and selective neuronal vulnerability in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2011, 122, 565-576.	7.7	90
34	Genome-wide analyses as part of the international FTLT-DTP whole-genome sequencing consortium reveals novel disease risk factors and increases support for immune dysfunction in FTLT. <i>Acta Neuropathologica</i> , 2019, 137, 879-899.	7.7	90
35	Loss of calbindin _{28k} from aging human cholinergic basal forebrain: Relation to neuronal loss. <i>Journal of Comparative Neurology</i> , 2003, 455, 249-259.	1.6	85
36	Relationship Between Plaques, Tangles, and Loss of Cortical Cholinergic Fibers in Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 63-75.	1.7	81

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37	Apoptotic signals within the basal forebrain cholinergic neurons in Alzheimer's disease. <i>Experimental Neurology</i> , 2005, 195, 484-496.	4.1	76
38	Apical dendrite degeneration, a novel cellular pathology for Betz cells in ALS. <i>Scientific Reports</i> , 2017, 7, 41765.	3.3	74
39	Distribution, progression and chemical composition of cortical amyloid- β^2 deposits in aged rhesus monkeys: similarities to the human. <i>Acta Neuropathologica</i> , 2003, 105, 145-156.	7.7	69
40	Butyrylcholinesterase, cholinergic neurotransmission and the pathology of Alzheimer's disease. <i>Drugs of Today</i> , 2004, 40, 711.	2.4	67
41	Cholinergic innervation of the amygdaloid complex in the human brain and its alterations in old age and Alzheimer's disease. <i>Journal of Comparative Neurology</i> , 1993, 336, 117-134.	1.6	63
42	Comparative distribution of tau phosphorylated at Ser262 in pre-tangles and tangles. <i>Neurobiology of Aging</i> , 2003, 24, 767-776.	3.1	59
43	Protease nexin I immunostaining in alzheimer's disease. <i>Annals of Neurology</i> , 1989, 26, 628-634.	5.3	51
44	Biochemical Differentiation of Cholinesterases from Normal and Alzheimers Disease Cortex. <i>Current Alzheimer Research</i> , 2012, 9, 138-143.	1.4	50
45	Von Economo neurons of the anterior cingulate across the lifespan and in Alzheimer's disease. <i>Cortex</i> , 2018, 99, 69-77.	2.4	47
46	Cognitive trajectories and spectrum of neuropathology in <sc>S</sc>uper<sc>A</sc>gers: The first 10 cases. <i>Hippocampus</i> , 2019, 29, 458-467.	1.9	44
47	Chemoarchitectonics of axonal and perikaryal acetylcholinesterase along information processing systems of the human cerebral cortex. <i>Brain Research Bulletin</i> , 1994, 33, 137-153.	3.0	42
48	Basal forebrain cholinergic system in the dementias: Vulnerability, resilience, and resistance. <i>Journal of Neurochemistry</i> , 2021, 158, 1394-1411.	3.9	42
49	Proteopathic tau primes and activates interleukin- 1β via myeloid-cell-specific MyD88- and NLRP3-ASC-inflammasome pathway. <i>Cell Reports</i> , 2021, 36, 109720.	6.4	42
50	Age-related loss of calbindin from human basal forebrain cholinergic neurons. <i>NeuroReport</i> , 1997, 8, 2209-2213.	1.2	37
51	Microglia activation mediates fibrillar amyloid- β^2 toxicity in the aged primate cortex. <i>Neurobiology of Aging</i> , 2011, 32, 387-397.	3.1	37
52	Accumulation of neurofibrillary tangles and activated microglia is associated with lower neuron densities in the aphasic variant of Alzheimer's disease. <i>Brain Pathology</i> , 2021, 31, 189-204.	4.1	36
53	Neuronal and Axonal Loss Are Selectively Linked to Fibrillar Amyloid- β^2 within Plaques of the Aged Primate Cerebral Cortex. <i>American Journal of Pathology</i> , 2010, 177, 325-333.	3.8	35
54	A Lifespan Observation of a Novel Mouse Model: In Vivo Evidence Supports A β^2 Oligomer Hypothesis. <i>PLoS ONE</i> , 2014, 9, e85885.	2.5	35

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55	Alterations of Ca ²⁺ -responsive proteins within cholinergic neurons in aging and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2014, 35, 1325-1333.	3.1	35
56	Asymmetric pathology in primary progressive aphasia with progranulin mutations and TDP inclusions. <i>Neurology</i> , 2016, 86, 627-636.	1.1	35
57	Activated Microglia in Cortical White Matter Across Cognitive Aging Trajectories. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 94.	3.4	35
58	Postnatal Development of Cortical Acetylcholinesterase-Rich Neurons in the Rat Brain: Permanent and Transient Patterns. <i>Experimental Neurology</i> , 1995, 134, 157-178.	4.1	33
59	Selective age-related loss of CALBINDIN-D28k from basal forebrain cholinergic neurons in the common marmoset (<i>callithrix jacchus</i>). <i>Neuroscience</i> , 2003, 120, 249-259.	2.3	33
60	Word comprehension in temporal cortex and Wernicke area. <i>Neurology</i> , 2019, 92, e224-e233.	1.1	33
61	Increased <i>APOE</i> μ 4 expression is associated with the difference in Alzheimer's disease risk from diverse ancestral backgrounds. <i>Alzheimer's and Dementia</i> , 2021, 17, 1179-1188.	0.8	33
62	Cholinesterases in the amyloid angiopathy of Alzheimer's disease. <i>Annals of Neurology</i> , 1992, 31, 565-569.	5.3	32
63	Variations in Acetylcholinesterase Activity within Human Cortical Pyramidal Neurons Across Age and Cognitive Trajectories. <i>Cerebral Cortex</i> , 2018, 28, 1329-1337.	2.9	32
64	Acetylcholinesterase-rich pyramidal neurons in alzheimer's disease. <i>Neurobiology of Aging</i> , 1992, 13, 455-460.	3.1	31
65	Loss of Calbindin-D _{28K} from Aging Human Cholinergic Basal Forebrain: Relation to Plaques and Tangles. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 605-616.	1.7	31
66	Loss of calbindin-D 28K is associated with the full range of tangle pathology within basal forebrain cholinergic neurons in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, 3163-3170.	3.1	30
67	Cortical cholinergic denervation in primary progressive aphasia with Alzheimer pathology. <i>Neurology</i> , 2019, 92, e1580-e1588.	1.1	28
68	Developmentally transient expression of acetylcholinesterase within cortical pyramidal neurons of the rat brain. <i>Developmental Brain Research</i> , 1993, 76, 23-31.	1.7	27
69	Asymmetric TDP-43 distribution in primary progressive aphasia with progranulin mutation. <i>Neurology</i> , 2010, 74, 1607-1610.	1.1	27
70	Neuropathological fingerprints of survival, atrophy and language in primary progressive aphasia. <i>Brain</i> , 2022, 145, 2133-2148.	7.6	26
71	Nosology of Primary Progressive Aphasia and the Neuropathology of Language. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1281, 33-49.	1.6	22
72	Protease Inhibitors and Indolamines Selectively Inhibit Cholinesterases in the Histopathologic Structures of Alzheimer's Disease. <i>Annals of the New York Academy of Sciences</i> , 1993, 695, 65-68.	3.8	19

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73	Butyrylcholinesterase activity in the rat forebrain and upper brainstem: Postnatal development and adult distribution. <i>Experimental Neurology</i> , 2007, 204, 640-657.	4.1	18
74	Asymmetric TDP pathology in primary progressive aphasia with right hemisphere language dominance. <i>Neurology</i> , 2018, 90, e396-e403.	1.1	18
75	Cyto- and Chemoarchitecture of Basal Forebrain Cholinergic Neurons in the Common Marmoset (<i>Callithrix jacchus</i>). <i>Experimental Neurology</i> , 2000, 165, 306-326.	4.1	17
76	Atrophy and microglial distribution in primary progressive aphasia with transactive response DNA-binding protein 43 kDa. <i>Annals of Neurology</i> , 2018, 83, 1096-1104.	5.3	15
77	Prominent microglial activation in cortical white matter is selectively associated with cortical atrophy in primary progressive aphasia. <i>Neuropathology and Applied Neurobiology</i> , 2019, 45, 216-229.	3.2	15
78	Memory Resilience in Alzheimer Disease With Primary Progressive Aphasia. <i>Neurology</i> , 2021, 96, e916-e925.	1.1	14
79	Paucity of Entorhinal Cortex Pathology of the Alzheimer's Type in SuperAgers with Superior Memory Performance. <i>Cerebral Cortex</i> , 2021, 31, 3177-3183.	2.9	14
80	Accumulation and age-related elevation of amyloid- β^2 within basal forebrain cholinergic neurons in the rhesus monkey. <i>Neuroscience</i> , 2015, 298, 102-111.	2.3	12
81	Postmortem Adult Human Microglia Proliferate in Culture to High Passage and Maintain Their Response to Amyloid- β^2 . <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1157-1167.	2.6	12
82	Cortical and subcortical pathological burden and neuronal loss in an autopsy series of FTLD-TDP-type C. <i>Brain</i> , 2022, 145, 1069-1078.	7.6	12
83	Neuropathologic basis of in vivo cortical atrophy in the aphasic variant of Alzheimer's disease. <i>Brain Pathology</i> , 2020, 30, 332-344.	4.1	11
84	Revisiting the utility of TDP-43 immunoreactive (TDP-43-ir) pathology to classify FTLD-TDP subtypes. <i>Acta Neuropathologica</i> , 2019, 138, 167-169.	7.7	10
85	Morphology and Distribution of TDP-43 Pre-inclusions in Primary Progressive Aphasia. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019, 78, 229-237.	1.7	10
86	Distribution of TDP-43 Pathology in Hippocampal Synaptic Relays Suggests Transsynaptic Propagation in Frontotemporal Lobar Degeneration. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 585-591.	1.7	9
87	Differential Neurotoxicity Related to Tetracycline Transactivator and TDP-43 Expression in Conditional TDP-43 Mouse Model of Frontotemporal Lobar Degeneration. <i>Journal of Neuroscience</i> , 2018, 38, 6045-6062.	3.6	8
88	Calbindin-D28K, parvalbumin, and calretinin in young and aged human locus coeruleus. <i>Neurobiology of Aging</i> , 2020, 94, 243-249.	3.1	5
89	Primary Progressive Aphasia Has a Unique Signature Distinct from Dementia of the Alzheimer's Type and Behavioral Variant Frontotemporal Dementia Regardless of Pathology. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 1379-1381.	1.7	5
90	Propagation of TDP-43 proteinopathy in neurodegenerative disorders. <i>Neural Regeneration Research</i> , 2022, 17, 1498.	3.0	4

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91	In vivo AAV-mediated expression of calbindin-D28K in rat basal forebrain cholinergic neurons. Journal of Neuroscience Methods, 2013, 212, 106-113.	2.5	2
92	The cholinergic system in the basal forebrain of the Atlantic white-sided dolphin (<i>Lagenorhynchus</i>) Tj ETQq0 0,0 rgBT /Oyerlock 10	1.6	1