Sam Gandy

List of Publications by Year
in descending order

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111 papers	13,009 citations	61984 43 h-index	24982 109 g-index
130 all docs	130 docs citations	130 times ranked	24008 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Brain insulin resistance in type 2 diabetes and Alzheimer disease: concepts and conundrums. Nature Reviews Neurology, 2018, 14, 168-181.	10.1	905
3	Multiscale Analysis of Independent Alzheimerâ€™s Cohorts Finds Disruption of Molecular, Genetic, and Clinical Networks by Human Herpesvirus. Neuron, 2018, 99, 64-82.e7.	8.1	558
4	Estrogen reduces neuronal generation of Alzheimer Î²-amyloid peptides. Nature Medicine, 1998, 4, 447-451.	30.7	545
5	Formation and maintenance of Alzheimer's disease Î²-amyloid plaques in the absence of microglia. Nature Neuroscience, 2009, 12, 1361-1363.	14.8	390
6	The Mount Sinai cohort of large-scale genomic, transcriptomic and proteomic data in Alzheimer's disease. Scientific Data, 2018, 5, 180185.	5.3	320
7	Sorting through the Cell Biology of Alzheimer's Disease: Intracellular Pathways to Pathogenesis. Neuron, 2006, 52, 15-31.	8.1	295
8	Traumatic Brain Injury â€" Football, Warfare, and Long-Term Effects. New England Journal of Medicine, 2010, 363, 1293-1296.	27.0	292
9	Directed Differentiation of Human Pluripotent Stem Cells to Microglia. Stem Cell Reports, 2017, 8, 1516-1524.	4.8	260
10	Acute and chronic traumatic encephalopathies: pathogenesis and biomarkers. Nature Reviews Neurology, 2013, 9, 192-200.	10.1	240
11	The role of cerebral amyloid Î² accumulation in common forms of Alzheimer disease. Journal of Clinical Investigation, 2005, 115, 1121-1129.	8.2	238
12	Integrative network analysis of nineteen brain regions identifies molecular signatures and networks underlying selective regional vulnerability to Alzheimerâ€™s disease. Genome Medicine, 2016, 8, 104.	8.2	224
13	Regulated Formation of Golgi Secretory Vesicles Containing Alzheimer Î²-Amyloid Precursor Protein. Journal of Biological Chemistry, 1995, 270, 23243-23245.	3.4	149
14	Characterization and Molecular Profiling of PSEN1 Familial Alzheimer's Disease iPSC-Derived Neural Progenitors. PLoS ONE, 2014, 9, e84547.	2.5	148
15	Diabetes-Associated SorCS1 Regulates Alzheimer's Amyloid-Î² Metabolism: Evidence for Involvement of SorL1 and the Retromer Complex. Journal of Neuroscience, 2010, 30, 13110-13115.	3.6	139
16	Molecular subtyping of Alzheimerâ€™s disease using RNA sequencing data reveals novel mechanisms and targets. Science Advances, 2021, 7, .	10.3	137
17	Days to criterion as an indicator of toxicity associated with human Alzheimer amyloidâ€Î² oligomers. Annals of Neurology, 2010, 68, 220-230.	5.3	123
18	Generation and Regulation of Î²â€Amyloid Peptide Variants by Neurons. Journal of Neurochemistry, 1998, 71, 1920-1925.	3.9	111

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19	Phospholipid dysregulation contributes to ApoE4-associated cognitive deficits in Alzheimerâ€™s disease pathogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11965-11970.	7.1	111
20	Amyloidâ€Î² Oligomers: Possible Roles as Key Neurotoxins in Alzheimer's Disease. Mount Sinai Journal of Medicine, 2010, 77, 43-49.	1.9	108
21	Transformative Network Modeling of Multi-omics Data Reveals Detailed Circuits, Key Regulators, and Potential Therapeutics for Alzheimerâ€™s Disease. Neuron, 2021, 109, 257-272.e14.	8.1	108
22	CRISPR/Cas9-Correctable mutation-related molecular and physiological phenotypes in iPSC-derived Alzheimerâ€™s PSEN2 N141I neurons. Acta Neuropathologica Communications, 2017, 5, 77.	5.2	102
23	Latrepirdine (Dimebon^{Â®}), a potential Alzheimer therapeutic, regulates autophagy and neuropathology in an Alzheimer mouse model. Autophagy, 2013, 9, 617-618.	9.1	95
24	Multiscale causal networks identify VGF as a key regulator of Alzheimerâ€™s disease. Nature Communications, 2020, 11, 3942.	12.8	94
25	Increased apolipoprotein E ?4 in epilepsy with senile plaques. Annals of Neurology, 1997, 41, 402-404.	5.3	90
26	Toward the Treatment and Prevention of Alzheimer's Disease: Rational Strategies and Recent Progress. Annual Review of Medicine, 2013, 64, 367-383.	12.2	89
27	Increased susceptibility to metabolic dysregulation in a mouse model of Alzheimer's disease is associated with impaired hypothalamic insulin signaling and elevated BCAA levels. Alzheimer's and Dementia, 2016, 12, 851-861.	0.8	85
28	Deficiency of TYROBP, an adapter protein for TREM2 and CR3 receptors, is neuroprotective in a mouse model of early Alzheimerâ€™s pathology. Acta Neuropathologica, 2017, 134, 769-788.	7.7	85
29	Group II Metabotropic Glutamate Receptor Stimulation Triggers Production and Release of Alzheimer's Amyloid Î²₄₂from Isolated Intact Nerve Terminals. Journal of Neuroscience, 2010, 30, 3870-3875.	3.6	78
30	Accelerating stem cell trials for Alzheimer's disease. Lancet Neurology, The, 2016, 15, 219-230.	10.2	76
31	Low-level blast exposure disrupts gliovascular and neurovascular connections and induces a chronic vascular pathology in rat brain. Acta Neuropathologica Communications, 2019, 7, 6.	5.2	75
32	â€œWhite Paperâ€•meeting summary and catalyst for future inquiry:ÂComplex mechanisms linking neurocognitive dysfunctionÂto insulin resistance and other metabolic dysfunction. F1000Research, 2016, 5, 353.	1.6	69
33	Complex mechanisms linking neurocognitive dysfunctionÂto insulin resistance and other metabolic dysfunction. F1000Research, 2016, 5, 353.	1.6	68
34	Integrative approach to sporadic Alzheimerâ€™s disease:Ådeficiency of TYROBPÂin cerebral AÎ² amyloidosis mouse normalizes clinical phenotype and complement subnetwork molecular pathology without reducing AÎ² burden. Molecular Psychiatry, 2019, 24, 431-446.	7.9	67
35	Mind the gapsâ€”advancing research into short-term and long-term neuropsychological outcomes of youth sports-related concussions. Nature Reviews Neurology, 2015, 11, 230-244.	10.1	65
36	Microglia as Dynamic and Essential Components of the Amyloid Hypothesis. Neuron, 2013, 78, 575-577.	8.1	64

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37	X11 Proteins Regulate the Translocation of Amyloid Î²-Protein Precursor (APP) into Detergent-resistant Membrane and Suppress the Amyloidogenic Cleavage of APP by Î²-Site-cleaving Enzyme in Brain. Journal of Biological Chemistry, 2008, 283, 35763-35771.	3.4	60
38	Brain and blood biomarkers of tauopathy and neuronal injury in humans and rats with neurobehavioral syndromes following blast exposure. Molecular Psychiatry, 2021, 26, 5940-5954.	7.9	56
39	Chronic traumatic encephalopathy: clinicalâ€biomarker correlations and current concepts in pathogenesis. Molecular Neurodegeneration, 2014, 9, 37.	10.8	54
40	Apolipoprotein E ?4 and fatal cerebral amyloid angiopathy associated with dementia pugilistica. Annals of Neurology, 1995, 38, 698-699.	5.3	53
41	Perspective: Prevention is better than cure. Nature, 2011, 475, S15-S15.	27.8	53
42	VGF-derived peptide TLQP-21 modulates microglial function through C3aR1 signaling pathways and reduces neuropathology in 5xFAD mice. Molecular Neurodegeneration, 2020, 15, 4.	10.8	52
43	Rapid doubling of Alzheimerâ€™s amyloid-Î²40 and 42 levels in brains of mice exposed to a nickel nanoparticle model of air pollution. F1000Research, 2012, 1, 70.	1.6	52
44	Incidence of mild cognitive impairment in World Trade Center responders: Longâ€term consequences of reâ€experiencing the events on 9/11/2001. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 628-636.	2.4	47
45	PTSD-Related Behavioral Traits in a Rat Model of Blast-Induced mTBI Are Reversed by the mGluR2/3 Receptor Antagonist BCI-838. ENeuro, 2018, 5, ENEURO.0357-17.2018.	1.9	47
46	Processing of Alzheimer AÎ²-Amyloid Precursor Protein: Cell Biology, Regulation, and Role in Alzheimer Disease. International Review of Neurobiology, 1994, 36, 29-50.	2.0	46
47	Alcadein Cleavages by Amyloid Î²-Precursor Protein (APP) Î±- and Î³-Secretases Generate Small Peptides, p3-Alcs, Indicating Alzheimer Disease-related Î³-Secretase Dysfunction. Journal of Biological Chemistry, 2009, 284, 36024-36033.	3.4	46
48	Integrative approach to sporadic Alzheimerâ€™s disease: deficiency of TYROBP in a tauopathy mouse model reduces C1q and normalizes clinical phenotype while increasing spread and state of phosphorylation of tau. Molecular Psychiatry, 2019, 24, 1383-1397.	7.9	46
49	Dietary composition modulates brain mass and solubilizable AÎ² levels in a mouse model of aggressive Alzheimer's amyloid pathology. Molecular Neurodegeneration, 2009, 4, 40.	10.8	43
50	Relationship of traumatic brain injury to chronic mental health problems and dementia in military veterans. Neuroscience Letters, 2019, 707, 134294.	2.1	42
51	Altered succinylation of mitochondrial proteins, APP and tau in Alzheimerâ€™s disease. Nature Communications, 2022, 13, 159.	12.8	42
52	Alternative processing of Î³â€secretase substrates in common forms of mild cognitive impairment and alzheimer's disease: Evidence for Î³â€secretase dysfunction. Annals of Neurology, 2011, 69, 1026-1031.	5.3	40
53	Protein Sorting Motifs in the Cytoplasmic Tail of SorCS1 Control Generation of Alzheimer's Amyloid-Î² Peptide. Journal of Neuroscience, 2013, 33, 7099-7107.	3.6	40
54	Effective anti-Alzheimer AÎ² therapy involves depletion of specific AÎ² oligomer subtypes. Neurology: Neuroimmunology and NeuroInflammation, 2016, 3, e237.	6.0	39

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55	Lifelong Management of Amyloid-Beta Metabolism to Prevent Alzheimer's Disease. New England Journal of Medicine, 2012, 367, 864-866.	27.0	38
56	iPSC-derived familial Alzheimerâ€™s PSEN2 N141I cholinergic neurons exhibit mutation-dependent molecular pathology corrected by insulin signaling. Molecular Neurodegeneration, 2018, 13, 33.	10.8	35
57	Blast-induced "PTSD": Evidence from an animal model. Neuropharmacology, 2019, 145, 220-229.	4.1	34
58	Early fear memory defects are associated with altered synaptic plasticity and molecular architecture in the TgCRND8 Alzheimer's disease mouse model. Journal of Comparative Neurology, 2014, 522, 2319-2335.	1.6	33
59	Enhanced generation of Alzheimerâ€™s amyloidâ€Î² following chronic exposure to phorbol ester correlates with differential effects on alpha and epsilon isozymes of protein kinase C. Journal of Neurochemistry, 2009, 108, 319-330.	3.9	32
60	Reactive or transgenic increase in microglial TYROBP reveals a TREM2â€independent TYROBPâ€“APOE link in wildâ€type and Alzheimer'sâ€related mice. Alzheimer's and Dementia, 2021, 17, 149-163.	0.8	30
61	APOE Îµ4 Status and Traumatic Brain Injury on the Gridiron or the Battlefield. Science Translational Medicine, 2012, 4, 134ed4.	12.4	29
62	The isotropic fractionator provides evidence for differential loss of hippocampal neurons in two mouse models of Alzheimer's disease. Molecular Neurodegeneration, 2012, 7, 58.	10.8	28
63	Environmental Exposures and the Risk for Alzheimer Disease. JAMA Neurology, 2014, 71, 273.	9.0	26
64	[18F]-T807 tauopathy PET imaging in chronic traumatic encephalopathy. F1000Research, 2014, 3, 229.	1.6	26
65	Unexpected partial correction of metabolic and behavioral phenotypes of Alzheimerâ€™s APP/PSEN1 mice by gene targeting of diabetes/Alzheimerâ€™s-related Sorcs1. Acta Neuropathologica Communications, 2016, 4, 16.	5.2	24
66	Alzheimerâ€™s presenilin 1 modulates sorting of APP and its carboxyl-terminal fragments in cerebral neurons in vivo. Journal of Neurochemistry, 2007, 102, 619-626.	3.9	23
67	Integrated biology approach reveals molecular and pathological interactions among Alzheimerâ€™s AÎ²42, Tau, TREM2, and TYROBP in Drosophila models. Genome Medicine, 2018, 10, 26.	8.2	23
68	miR155 regulation of behavior, neuropathology, and cortical transcriptomics in Alzheimer's disease. Acta Neuropathologica, 2020, 140, 295-315.	7.7	23
69	APOE Îµ4 and bapineuzumab. Neurology, 2009, 73, 2052-2053.	1.1	22
70	Posttraumatic stress disorder and total amyloid burden and amyloidâ€Î² 42/40 ratios in plasma: Results from a pilot study of World Trade Center responders. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 216-220.	2.4	22
71	Low-level blast exposure induces chronic vascular remodeling, perivascular astrocytic degeneration and vascular-associated neuroinflammation. Acta Neuropathologica Communications, 2021, 9, 167.	5.2	21
72	CR1 and the â€œVanishing Amyloidâ€•Hypothesis of Alzheimerâ€™s Disease. Biological Psychiatry, 2013, 73, 393-395.	1.3	20

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73	Pathway Analysis for Plasma Î²-Amyloid, Tau and Neurofilament Light (ATN) in World Trade Center Responders at Midlife. Neurology and Therapy, 2020, 9, 159-171.	3.2	20
74	Progressive Cognitive and Post-Traumatic Stress Disorder-Related Behavioral Traits in Rats Exposed to Repetitive Low-Level Blast. Journal of Neurotrauma, 2021, 38, 2030-2045.	3.4	19
75	Genome-wide association study and functional validation implicates JADE1 in tauopathy. Acta Neuropathologica, 2022, 143, 33-53.	7.7	19
76	Making the Case for Accelerated Withdrawal of Aducanumab. Journal of Alzheimer's Disease, 2022, 87, 1003-1007.	2.6	19
77	Cognitive impairment and World Trade Centre-related exposures. Nature Reviews Neurology, 2022, 18, 103-116.	10.1	18
78	Testing the amyloid hypothesis of Alzheimer's disease in vivo. Lancet Neurology, The, 2010, 9, 333-335.	10.2	15
79	Alzheimer disease: presenilin springs a leak. Nature Medicine, 2006, 12, 1121-1123.	30.7	14
80	Multiple Î³-secretase product peptides are coordinately increased in concentration in the cerebrospinal fluid of a subpopulation of sporadic Alzheimerâ€™s disease subjects. Molecular Neurodegeneration, 2012, 7, 16.	10.8	14
81	New developments of biofluidâ€based biomarkers for routine diagnosis and disease trajectories in frontotemporal dementia. Alzheimer's and Dementia, 2022, 18, 2292-2307.	0.8	14
82	Solanezumabâ€”prospects for meaningful interventions in AD?. Nature Reviews Neurology, 2015, 11, 669-670.	10.1	13
83	Apomorphine and Alzheimer AÎ²: Roles for regulated Î± cleavage, autophagy, and antioxidation?. Annals of Neurology, 2011, 69, 221-225.	5.3	12
84	Alzheimerâ€™s Disease: New Data Highlight Nonneuronal Cell Types and the Necessity for Presymptomatic Prevention Strategies. Biological Psychiatry, 2014, 75, 553-557.	1.3	11
85	Repetitive Low-Level Blast Exposure Improves Behavioral Deficits and Chronically Lowers AÎ²42 in an Alzheimer Disease Transgenic Mouse Model. Journal of Neurotrauma, 2021, 38, 3146-3173.	3.4	11
86	Coordinated increase of Î³-secretase reaction products in the plasma of some female Japanese sporadic Alzheimer's disease patients: quantitative analysis of p3-AlcÎ± with a new ELISA system. Molecular Neurodegeneration, 2011, 6, 76.	10.8	10
87	Clarifying the Potential Role of Microbes in Alzheimerâ€™s Disease. Neuron, 2019, 104, 1036-1037.	8.1	10
88	Selective hippocampal subfield volume reductions in World Trade Center responders with cognitive impairment. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12165.	2.4	10
89	A Workshop on Cognitive Aging and Impairment in the 9/11-Exposed Population. International Journal of Environmental Research and Public Health, 2021, 18, 681.	2.6	10
90	Talking points for physicians, patients and caregivers considering AduhelmÂ® infusion and the accelerated pathway for its approval by the FDA. Molecular Neurodegeneration, 2021, 16, 74.	10.8	10

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91	Midlife interventions are critical in prevention, delay, or improvement of Alzheimerâ€™s disease and vascular cognitive impairment and dementia. F1000Research, 2017, 6, 413.	1.6	9
92	Reduced cerebellar cortical thickness in World Trade Center responders with cognitive impairment. Translational Psychiatry, 2022, 12, 107.	4.8	8
93	2012: the year in dementia. Lancet Neurology, The, 2013, 12, 4-6.	10.2	7
94	Laterality and region-specific tau phosphorylation correlate with PTSD-related behavioral traits in rats exposed to repetitive low-level blast. Acta Neuropathologica Communications, 2021, 9, 33.	5.2	7
95	White Matter Connectivity in Incident Mild Cognitive Impairment: A Diffusion Spectrum Imaging Study of World Trade Center Responders at Midlife. Journal of Alzheimer's Disease, 2021, 80, 1209-1219.	2.6	7
96	Cortical complexity in world trade center responders with chronic posttraumatic stress disorder. Translational Psychiatry, 2021, 11, 597.	4.8	7
97	Decrease in p3â€Alcî²37 and p3â€Alcî²40, products of Alcadein î² generated by î³â€secretase cleavages, in aged monkeys and patients with Alzheimer's disease. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2019, 5, 740-750.	3.7	6
98	Chromatin plasticity and the pathogenesis of Huntington disease. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16867-16868.	7.1	5
99	A cortical thinning signature to identify World Trade Center responders with possible dementia. Intelligence-based Medicine, 2021, 5, 100032.	2.4	5
100	Increased dementia risk following androgen deprivation therapy?. Nature Reviews Urology, 2016, 13, 188-189.	3.8	4
101	Physiologically generated presenilin 1 lacking exon 8 fails to rescue brain PS1âˆ'/âˆ' phenotype and forms complexes with wildtype PS1 and nicastrin. Scientific Reports, 2015, 5, 17042.	3.3	4
102	A Letter Concerning â€œAducanumab: What about the Patient?â€• Annals of Neurology, 2022, 91, 732-733.	5.3	3
103	World Trade Center dust induces nasal and neurological tissue injury while propagating reduced olfaction capabilities and increased anxiety behaviors. Inhalation Toxicology, 2022, , 1-14.	1.6	3
104	Alzheimer mutant speeds APP transport. Journal of Experimental Medicine, 2021, 218, .	8.5	2
105	Transcranial Laser Therapy Does Not Improve Cognitive and Post-Traumatic Stress Disorderâ€“Related Behavioral Traits in Rats Exposed to Repetitive Low-Level Blast Injury. Neurotrauma Reports, 2021, 2, 548-563.	1.4	2
106	Paul Greengard, Ph.D. (1925â€“2019). Alzheimer's and Dementia, 2019, 15, 1229-1235.	0.8	1
107	Repetitive concussions â€” How dangerous are they?. Molecular and Cellular Neurosciences, 2015, 66, 73-74.	2.2	0
108	Alzheimer's Disease and Frontotemporal Dementia. , 2016, , 295-306.		0

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109	Memory Loss and Dementia. , 2016, , 93-101.		0
110	Unexpected systemic phenotypes result from focal combined deficiencies of forebrain insulin receptor/IGF-1 receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5852-5854.	7.1	0
111	Case Report: A World Trade Center (WTC) responder presenting with moderate stage dementia by age 57, suggesting an extended severity of WTC-associated illness'. , 0, , .		0