

Thomas A Bayer

List of Publications by Year in descending order

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109
papers

7,628
citations

46984

47
h-index

53190

85
g-index

123
all docs

123
docs citations

123
times ranked

8199
citing authors

#	ARTICLE	IF	CITATIONS
1	Motor deficits, neuron loss, and reduced anxiety coinciding with axonal degeneration and intraneuronal A β aggregation in the 5XFAD mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2012, 33, 196.e29-196.e40.	1.5	421
2	Massive CA1/2 Neuronal Loss with Intraneuronal and N-Terminal Truncated A β 42 Accumulation in a Novel Alzheimer Transgenic Model. <i>American Journal of Pathology</i> , 2004, 165, 1289-1300.	1.9	375
3	A modified beta-amyloid hypothesis: intraneuronal accumulation of the beta-amyloid peptide - the first step of a fatal cascade. <i>Journal of Neurochemistry</i> , 2004, 91, 513-520.	2.1	344
4	Dietary Cu stabilizes brain superoxide dismutase 1 activity and reduces amyloid A β production in APP23 transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14187-14192.	3.3	330
5	Intraneuronal A β accumulation precedes plaque formation in β -amyloid precursor protein and presenilin-1 double-transgenic mice. <i>Neuroscience Letters</i> , 2001, 306, 116-120.	1.0	323
6	Endothelial LRP1 transports amyloid- β 1-42 across the blood-brain barrier. <i>Journal of Clinical Investigation</i> , 2015, 126, 123-136.	3.9	299
7	Time sequence of maturation of dystrophic neurites associated with A β deposits in APP/PS1 transgenic mice. <i>Experimental Neurology</i> , 2003, 184, 247-263.	2.0	257
8	Hippocampal Neuron Loss Exceeds Amyloid Plaque Load in a Transgenic Mouse Model of Alzheimer's Disease. <i>American Journal of Pathology</i> , 2004, 164, 1495-1502.	1.9	233
9	Immune hyperreactivity of A β plaque-associated microglia in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2017, 55, 115-122.	1.5	205
10	Pyroglutamate Amyloid- β (A β): A Hatchet Man in Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2011, 286, 38825-38832.	1.6	177
11	Intracellular accumulation of amyloid-beta β a predictor for synaptic dysfunction and neuron loss in Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2010, 2, 8.	1.7	161
12	Key Factors in Alzheimer's Disease: β -Amyloid Precursor Protein Processing, Metabolism and Intraneuronal Transport. <i>Brain Pathology</i> , 2001, 11, 1-11.	2.1	159
13	N-truncated amyloid β (A β) 4-42 forms stable aggregates and induces acute and long-lasting behavioral deficits. <i>Acta Neuropathologica</i> , 2013, 126, 189-205.	3.9	153
14	Intraneuronal pyroglutamate-A β 3-42 triggers neurodegeneration and lethal neurological deficits in a transgenic mouse model. <i>Acta Neuropathologica</i> , 2009, 118, 487-496.	3.9	151
15	Cloquinol Mediates Copper Uptake and Counteracts Copper Efflux Activities of the Amyloid Precursor Protein of Alzheimer's Disease. <i>Journal of Biological Chemistry</i> , 2004, 279, 51958-51964.	1.6	138
16	Focusing the amyloid cascade hypothesis on N-truncated A β peptides as drug targets against Alzheimer's disease. <i>Acta Neuropathologica</i> , 2014, 127, 787-801.	3.9	129
17	Transient intraneuronal A β rather than extracellular plaque pathology correlates with neuron loss in the frontal cortex of APP/PS1KI mice. <i>Acta Neuropathologica</i> , 2008, 116, 647-655.	3.9	116
18	Intraneuronal APP/A β Trafficking and Plaque Formation in β -Amyloid Precursor Protein and Presenilin-1 Transgenic Mice. <i>Brain Pathology</i> , 2002, 12, 275-286.	2.1	113

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19	Axonopathy in an APP/PS1 transgenic mouse model of Alzheimer's disease. <i>Acta Neuropathologica</i> , 2006, 111, 312-319.	3.9	113
20	Inflammatory changes are tightly associated with neurodegeneration in the brain and spinal cord of the APP/PS1KI mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010, 31, 747-757.	1.5	111
21	Age-Related Loss of Synaptophysin Immunoreactive Presynaptic Boutons within the Hippocampus of APP751SL, PS1M146L, and APP751SL/PS1M146L Transgenic Mice. <i>American Journal of Pathology</i> , 2005, 167, 161-173.	1.9	107
22	Age-dependent axonal degeneration in an Alzheimer mouse model. <i>Neurobiology of Aging</i> , 2007, 28, 1689-1699.	1.5	107
23	Histone Deacetylase Inhibitor Valproic Acid Inhibits Cancer Cell Proliferation via Down-regulation of the Alzheimer Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2010, 285, 10678-10689.	1.6	104
24	Accumulation of intraneuronal A β 2 correlates with ApoE4 genotype. <i>Acta Neuropathologica</i> , 2010, 119, 555-566.	3.9	94
25	Intake of copper has no effect on cognition in patients with mild Alzheimer's disease: a pilot phase 2 clinical trial. <i>Journal of Neural Transmission</i> , 2008, 115, 1181-1187.	1.4	92
26	Identification of Low Molecular Weight Pyroglutamate A β 2 Oligomers in Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2010, 285, 41517-41524.	1.6	91
27	Pyroglutamate Abeta pathology in APP/PS1KI mice, sporadic and familial Alzheimer's disease cases. <i>Journal of Neural Transmission</i> , 2010, 117, 85-96.	1.4	87
28	Prolonged Running, not Fluoxetine Treatment, Increases Neurogenesis, but does not Alter Neuropathology, in the 3xTg Mouse Model of Alzheimer's Disease. <i>Current Topics in Behavioral Neurosciences</i> , 2013, 15, 313-340.	0.8	85
29	Phosphorylation of the amyloid β -peptide at Ser26 stabilizes oligomeric assembly and increases neurotoxicity. <i>Acta Neuropathologica</i> , 2016, 131, 525-537.	3.9	84
30	Intraneuronal A β 2 accumulation and neurodegeneration: Lessons from transgenic models. <i>Life Sciences</i> , 2012, 91, 1148-1152.	2.0	81
31	Gene Dosage Dependent Aggravation of the Neurological Phenotype in the 5XFAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 1223-1236.	1.2	80
32	Overexpression of Glutamyl Cyclase, the Enzyme Responsible for Pyroglutamate A β 2 Formation, Induces Behavioral Deficits, and Glutamyl Cyclase Knock-out Rescues the Behavioral Phenotype in 5XFAD Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 4454-4460.	1.6	79
33	Early intraneuronal accumulation and increased aggregation of phosphorylated Abeta in a mouse model of Alzheimer's disease. <i>Acta Neuropathologica</i> , 2013, 125, 699-709.	3.9	79
34	Cognitive decline correlates with low plasma concentrations of copper in patients with mild to moderate Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2005, 8, 23-27.	1.2	78
35	Deciphering the Molecular Profile of Plaques, Memory Decline and Neuron Loss in Two Mouse Models for Alzheimer's Disease by Deep Sequencing. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 75.	1.7	78
36	Proteinopathies, a core concept for understanding and ultimately treating degenerative disorders?. <i>European Neuropsychopharmacology</i> , 2015, 25, 713-724.	0.3	78

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37	Diesel engine exhaust accelerates plaque formation in a mouse model of Alzheimer's disease. <i>Particle and Fibre Toxicology</i> , 2017, 14, 35.	2.8	77
38	Deficits in working memory and motor performance in the APP/PS1ki mouse model for Alzheimer's disease. <i>Neurobiology of Aging</i> , 2008, 29, 891-901.	1.5	75
39	APP/PS1KI bigenic mice develop early synaptic deficits and hippocampus atrophy. <i>Acta Neuropathologica</i> , 2009, 117, 677-685.	3.9	74
40	Pyroglutamate Amyloid β^2 (A β^2) Aggravates Behavioral Deficits in Transgenic Amyloid Mouse Model for Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2012, 287, 8154-8162.	1.6	71
41	Environmental enrichment fails to rescue working memory deficits, neuron loss, and neurogenesis in APP/PS1KI mice. <i>Neurobiology of Aging</i> , 2012, 33, 96-107.	1.5	71
42	Intracellular A β^2 triggers neuron loss in the cholinergic system of the APP/PS1KI mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010, 31, 1153-1163.	1.5	66
43	Neprilysin Deficiency Alters the Neuropathological and Behavioral Phenotype in the 5XFAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 1291-1302.	1.2	63
44	Amyloid Precursor Protein (APP) Mediated Regulation of Ganglioside Homeostasis Linking Alzheimer's Disease Pathology with Ganglioside Metabolism. <i>PLoS ONE</i> , 2012, 7, e34095.	1.1	61
45	Neuron Loss in Transgenic Mouse Models of Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2010, 2010, 1-6.	1.1	57
46	Accelerated tau pathology with synaptic and neuronal loss in a novel triple transgenic mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2013, 34, 2564-2573.	1.5	55
47	Abeta targets of the biosimilar antibodies of Bapineuzumab, Crenezumab, Solanezumab in comparison to an antibody against N-truncated Abeta in sporadic Alzheimer disease cases and mouse models. <i>Acta Neuropathologica</i> , 2015, 130, 713-729.	3.9	53
48	Effect of copper intake on CSF parameters in patients with mild Alzheimer's disease: a pilot phase 2 clinical trial. <i>Journal of Neural Transmission</i> , 2008, 115, 1651-1659.	1.4	52
49	¹⁸ F-FDG-PET Detects Drastic Changes in Brain Metabolism in the Tg4 β 42 Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 425.	1.7	49
50	Copper and clioquinol treatment in young APP transgenic and wild-type mice: effects on life expectancy, body weight, and metal-ion levels. <i>Journal of Molecular Medicine</i> , 2007, 85, 405-413.	1.7	42
51	Analysis of Motor Function in the Tg4-42 Mouse Model of Alzheimer's Disease. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 107.	1.0	41
52	The Arctic A β 2PP mutation leads to Alzheimer's disease pathology with highly variable topographic deposition of differentially truncated A β 2. <i>Acta Neuropathologica Communications</i> , 2013, 1, 60.	2.4	38
53	No alterations of hippocampal neuronal number and synaptic bouton number in a transgenic mouse model expressing the β^2 -cleaved C-terminal APP fragment. <i>Neurobiology of Disease</i> , 2003, 12, 110-120.	2.1	37
54	N-truncated Abeta starting with position four: early intraneuronal accumulation and rescue of toxicity using NT4X-167, a novel monoclonal antibody. <i>Acta Neuropathologica Communications</i> , 2013, 1, 56.	2.4	36

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55	Pyroglutamate A β cascade as drug target in Alzheimer's disease. <i>Molecular Psychiatry</i> , 2022, 27, 1880-1885.	4.1	36
56	Expression of the Alzheimer's Disease Mutations A β PP695sw and PSEN1M146I in Double-Transgenic Göttingen Minipigs. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 1617-1630.	1.2	35
57	Concomitant detection of A β -amyloid peptides with N-terminal truncation and different C-terminal endings in cortical plaques from cases with Alzheimer's disease, senile monkeys and triple transgenic mice. <i>Journal of Chemical Neuroanatomy</i> , 2010, 40, 82-92.	1.0	34
58	Alzheimer therapy with an antibody against N-terminal Abeta 4-X and pyroglutamate Abeta 3-X. <i>Scientific Reports</i> , 2015, 5, 17338.	1.6	34
59	Loss of Munc18-1 long splice variant in GABAergic terminals is associated with cognitive decline and increased risk of dementia in a community sample. <i>Molecular Neurodegeneration</i> , 2015, 10, 65.	4.4	34
60	N-truncated A β 42 peptides in sporadic Alzheimer's disease cases and transgenic Alzheimer mouse models. <i>Alzheimer's Research and Therapy</i> , 2017, 9, 80.	3.0	34
61	Cellular Copper Import by Nanocarrier Systems, Intracellular Availability, and Effects on Amyloid A β Peptide Secretion. <i>Biochemistry</i> , 2009, 48, 4273-4284.	1.2	33
62	Intraneuronal A β as a trigger for neuron loss: can this be translated into human pathology?. <i>Biochemical Society Transactions</i> , 2011, 39, 857-861.	1.6	33
63	A β PP Accumulation and/or Intraneuronal Amyloid-A β Accumulation? The 3xTg-AD Mouse Model Revisited. <i>Journal of Alzheimer's Disease</i> , 2012, 28, 897-904.	1.2	33
64	No improvement after chronic ibuprofen treatment in the 5XFAD mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2012, 33, 833.e39-833.e50.	1.5	32
65	Formic acid is essential for immunohistochemical detection of aggregated intraneuronal A β peptides in mouse models of Alzheimer's disease. <i>Brain Research</i> , 2009, 1301, 116-125.	1.1	31
66	Deposition of C-terminally truncated A β species A β 37 and A β 39 in Alzheimer's disease and transgenic mouse models. <i>Acta Neuropathologica Communications</i> , 2016, 4, 24.	2.4	29
67	Disturbed Copper Bioavailability in Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-5.	1.1	28
68	Frontotemporal dysregulation of the SNARE protein interactome is associated with faster cognitive decline in old age. <i>Neurobiology of Disease</i> , 2018, 114, 31-44.	2.1	27
69	A β 38 in the Brains of Patients with Sporadic and Familial Alzheimer's Disease and Transgenic Mouse Models. <i>Journal of Alzheimer's Disease</i> , 2014, 39, 871-881.	1.2	25
70	Reduced levels of IgM autoantibodies against N-truncated pyroglutamate A β in plasma of patients with Alzheimer's disease. <i>Neurobiology of Aging</i> , 2011, 32, 1379-1387.	1.5	23
71	In vivo Imaging With 18F-FDG- and 18F-Florbetaben-PET/MRI Detects Pathological Changes in the Brain of the Commonly Used 5XFAD Mouse Model of Alzheimer's Disease. <i>Frontiers in Medicine</i> , 2020, 7, 529.	1.2	23
72	Circulating immune complexes of A β and IgM in plasma of patients with Alzheimer's disease. <i>Journal of Neural Transmission</i> , 2009, 116, 913-920.	1.4	22

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73	Synaptic Alterations in Mouse Models for Alzheimer Disease—A Special Focus on N-Truncated Abeta 4-42. <i>Molecules</i> , 2018, 23, 718.	1.7	20
74	N-Terminal heterogeneity of parenchymal and vascular amyloid- β deposits in Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , 2020, 46, 673-685.	1.8	20
75	Shotgun Brain Proteomics Reveals Early Molecular Signature in Presymptomatic Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 37, 297-308.	1.2	19
76	Abundance of A β 25-x-like immunoreactivity in transgenic 5XFAD, APP/PS1KI and 3xTG mice, sporadic and familial Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 13.	4.4	19
77	Age-dependent loss of dentate gyrus granule cells in APP/PS1KI mice. <i>Brain Research</i> , 2008, 1222, 207-213.	1.1	18
78	Intraneuronal A β -Amyloid Is a Major Risk Factor — Novel Evidence from the APP/PS1KI Mouse Model. <i>Neurodegenerative Diseases</i> , 2008, 5, 140-142.	0.8	18
79	Oligomeric Pyroglutamate Amyloid- β is Present in Microglia and a Subfraction of Vessels in Patients with Alzheimer's Disease: Implications for Immunotherapy. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 741-749.	1.2	18
80	Antibody 9D5 Recognizes Oligomeric Pyroglutamate Amyloid- β in a Fraction of Amyloid- β Deposits in Alzheimer's Disease without Cross-Reactivity with other Protein Aggregates. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 361-371.	1.2	17
81	Decreased cortical FADD protein is associated with clinical dementia and cognitive decline in an elderly community sample. <i>Molecular Neurodegeneration</i> , 2017, 12, 26.	4.4	17
82	SUMO1 conjugation is altered during normal aging but not by increased amyloid burden. <i>Aging Cell</i> , 2018, 17, e12760.	3.0	15
83	I716F A β PP Mutation Associates with the Deposition of Oligomeric Pyroglutamate Amyloid- β and β -Synucleinopathy with Lewy Bodies. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 103-114.	1.2	13
84	Amyloid Precursor Protein Is a Biomarker for Transformed Human Pluripotent Stem Cells. <i>American Journal of Pathology</i> , 2012, 180, 1636-1652.	1.9	12
85	Gene Expression Profiling in the APP/PS1KI Mouse Model of Familial Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 397-409.	1.2	12
86	Super-Resolution Microscopy of Cerebrospinal Fluid Biomarkers as a Tool for Alzheimer's Disease Diagnostics. <i>Journal of Alzheimer's Disease</i> , 2015, 46, 1007-1020.	1.2	12
87	Neuron Loss and Behavioral Deficits in the TBA42 Mouse Model Expressing N-Truncated Pyroglutamate Amyloid- β 38-42. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 471-482.	1.2	12
88	Synergistic Effect on Neurodegeneration by N-Truncated A β 24-42 and Pyroglutamate A β 38-42 in a Mouse Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 64.	1.7	11
89	Discovery of a novel pseudo A β -hairpin structure of N-truncated amyloid- β for use as a vaccine against Alzheimer's disease. <i>Molecular Psychiatry</i> , 2021, , .	4.1	11
90	N-Terminal Truncated A β 24-42 Is a Substrate for Neprilysin Degradation in vitro and in vivo. <i>Journal of Alzheimer's Disease</i> , 2019, 67, 849-858.	1.2	10

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91	Search strategy analysis of Tg4-42 Alzheimer Mice in the Morris Water Maze reveals early spatial navigation deficits. <i>Scientific Reports</i> , 2022, 12, 5451.	1.6	10
92	N-Truncated A β ₂₋₄₂ Starting with Position Two in Sporadic Alzheimer's Disease Cases and Two Alzheimer Mouse Models. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 101-110.	1.2	9
93	Reduced Acoustic Startle Response and Prepulse Inhibition in the Tg4-42 Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease Reports</i> , 2019, 3, 269-278.	1.2	9
94	N-Truncated A β ₂ Starting at Position Four" Biochemical Features, Preclinical Models, and Potential as Drug Target in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 710579.	1.7	9
95	Donanemab detects a minor fraction of amyloid- β plaques in post-mortem brain tissue of patients with Alzheimer's disease and Down syndrome. <i>Acta Neuropathologica</i> , 2022, 143, 601-603.	3.9	9
96	Altered cholesterol metabolism in APP695-transfected neuroblastoma cells. <i>Brain Research</i> , 2007, 1152, 209-214.	1.1	6
97	miRNA Alterations Elicit Pathways Involved in Memory Decline and Synaptic Function in the Hippocampus of Aged Tg4-42 Mice. <i>Frontiers in Neuroscience</i> , 2020, 14, 580524.	1.4	5
98	Transgene integration causes RARB downregulation in homozygous Tg4-42 mice. <i>Scientific Reports</i> , 2020, 10, 6377.	1.6	5
99	Metabolic, Phenotypic, and Neuropathological Characterization of the Tg4-42 Mouse Model for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 1151-1168.	1.2	5
100	Immunotherapy Against N-Truncated Amyloid- β Oligomers. <i>Methods in Pharmacology and Toxicology</i> , 2016, , 37-50.	0.1	3
101	Small RNA Sequencing in the Tg4-42 Mouse Model Suggests the Involvement of snoRNAs in the Etiology of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2022, 87, 1671-1681.	1.2	2
102	New insights into Alzheimer's disease: modeling neurodegeneration - causes and consequences. <i>Genes, Brain and Behavior</i> , 2008, 7, iv-iv.	1.1	1
103	Die modifizierte Amyloid-Hypothese der Alzheimer-Demenz " intraneuronales Abeta induziert Neurodegeneration. <i>E-Neuroforum</i> , 2009, 15, 76-83.	0.2	0
104	Problems During Aging (Alzheimer's and Others). , 2013, , 2953-2969.		0
105	P1-422: THE IMPACT OF PASSIVE IMMUNIZATION AGAINST N-TERMINALLY TRUNCATED AB SPECIES: A COMPARATIVE STUDY IN THE 5XFAD ALZHEIMER'S MODEL. , 2014, 10, P468-P468.		0
106	O4-1105: Endothelial CLRP1 Clears Major Amounts of Abeta 1-42 Across the Blood-Brain Barrier. <i>Alzheimer's and Dementia</i> , 2016, 12, P361.	0.4	0
107	P1-156: Abeta Plaque-Associated Microglia Priming in Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P462.	0.4	0
108	[P4-393]: COEXPRESSION OF THE TWO N-TRUNCATED PEPTIDES A β ₃ (PE) ₄₂ AND A β ₄ ₄₂ AGGRAVATES THE BEHAVIORAL PHENOTYPE IN TRANSGENIC AMYLOID MOUSE MODELS FOR ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1478.	0.4	0

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109	Effects of a WIN 55,212-2 based therapy in two mouse models of Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e043211.	0.4	0