Anne Poljak

List of Publications by Year in descending order

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109 papers	5,944 citations	76326 40 h-index	76900 74 g-index
117 all docs	117 docs citations	117 times ranked	9424 citing authors

#	Article	IF	Citations
1	Progress with geneâ€product mapping of the Mollicutes: Mycoplasma genitalium. Electrophoresis, 1995, 16, 1090-1094.	2.4	892
2	Age Related Changes in NAD+ Metabolism Oxidative Stress and Sirt1 Activity in Wistar Rats. PLoS ONE, 2011, 6, e19194.	2.5	508
3	Site-specific phosphorylation of tau inhibits amyloid-Î² toxicity in Alzheimerâ€™s mice. Science, 2016, 354, 904-908.	12.6	241
4	Plasma biomarkers for mild cognitive impairment and Alzheimer's disease. Brain Research Reviews, 2009, 61, 69-80.	9.0	165
5	Plasma Apolipoprotein Levels Are Associated with Cognitive Status and Decline in a Community Cohort of Older Individuals. PLoS ONE, 2012, 7, e34078.	2.5	158
6	Role of Nicotinamide Adenine Dinucleotide and Related Precursors as Therapeutic Targets for Age-Related Degenerative Diseases: Rationale, Biochemistry, Pharmacokinetics, and Outcomes. Antioxidants and Redox Signaling, 2019, 30, 251-294.	5.4	147
7	Dysregulation of lipids in Alzheimer's disease and their role as potential biomarkers. Alzheimer's and Dementia, 2017, 13, 810-827.	0.8	146
8	The Plasma NAD⁺Metabolome Is Dysregulated in â€œNormalâ€•Aging. Rejuvenation Research, 2019, 22, 121-130.	1.8	137
9	Cross-species identification of proteins separated by two-dimensional gel electrophoresis using matrix-assisted laser desorption ionisation/time-of-flight mass spectrometry and amino acid composition. Electrophoresis, 1995, 16, 438-443.	2.4	136
10	Quantitative analysis of low molecular weight compounds of biological interest by matrix-assisted laser desorption ionization. Rapid Communications in Mass Spectrometry, 1993, 7, 1090-1094.	1.5	125
11	Meta-Analysis of Plasma Amyloid-Î² levels in Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 26, 365-375.	2.6	123
12	Differential expression of sirtuins in the aging rat brain. Frontiers in Cellular Neuroscience, 2015, 9, 167.	3.7	119
13	Measurements of protein carbonyls, ortho- and meta-tyrosine and oxidative phosphorylation complex activity in mitochondria from young and old rats. Free Radical Biology and Medicine, 2001, 31, 181-190.	2.9	112
14	AÎ² and human amylin share a common toxicity pathway via mitochondrial dysfunction. Proteomics, 2010, 10, 1621-1633.	2.2	112
15	The role of polyphenols in the modulation of sirtuins and other pathways involved in Alzheimer's disease. Ageing Research Reviews, 2013, 12, 867-883.	10.9	105
16	Mapping NAD+ metabolism in the brain of ageing Wistar rats: potential targets for influencing brain senescence. Biogerontology, 2014, 15, 177-198.	3.9	95
17	Pancreatic stellate cells produce acetylcholine and may play a role in pancreatic exocrine secretion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17397-17402.	7.1	86
18	Resveratrol as a Potential Therapeutic Candidate for the Treatment and Management of Alzheimer';s Disease. Current Topics in Medicinal Chemistry, 2016, 16, 1951-1960.	2.1	74

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19	Structure and Function of Cold Shock Proteins in Archaea. Journal of Bacteriology, 2007, 189, 5738-5748.	2.2	70
20	Sirtuins in cognitive ageing and Alzheimer's disease. Current Opinion in Psychiatry, 2012, 25, 226-230.	6.3	70
21	Plasma Protein Profiling of Mild Cognitive Impairment and Alzheimer's Disease Across Two Independent Cohorts. Journal of Alzheimer's Disease, 2014, 43, 1355-1373.	2.6	68
22	Plasma protein profiling of Mild Cognitive Impairment and Alzheimerâ€™s disease using iTRAQ quantitative proteomics. Proteome Science, 2014, 12, 5.	1.7	67
23	Role of lysine versus arginine in enzyme cold-adaptation: Modifying lysine to homo-arginine stabilizes the cold-adapted Î±-amylase from Pseudoalteramonas haloplanktis. Proteins: Structure, Function and Bioinformatics, 2006, 64, 486-501.	2.6	65
24	Defining the response of a microorganism to temperatures that span its complete growth temperature range (â^'2Â°C to 28Â°C) using multiplex quantitative proteomics. Environmental Microbiology, 2011, 13, 2186-2203.	3.8	64
25	Cerebral small vessel disease and the risk of Alzheimerâ€™s disease: A systematic review. Ageing Research Reviews, 2018, 47, 41-48.	10.9	62
26	Role of Disulfide Bridges in the Activity and Stability of a Cold-Active Î±-Amylase. Journal of Bacteriology, 2005, 187, 6206-6212.	2.2	61
27	Phenotypic Characterization of Insulin-Resistant and Insulin-Sensitive Obesity. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 4082-4091.	3.6	58
28	A novel prokaryotic <scp>l</scp>â€arginine:glycine amidinotransferase is involved in cylindrospermopsin biosynthesis. FEBS Journal, 2010, 277, 3844-3860.	4.7	55
29	An N-terminal motif unique to primate tau enables differential proteinâ€“protein interactions. Journal of Biological Chemistry, 2018, 293, 3710-3719.	3.4	53
30	Identification of cellular changes associated with increased production of human growth hormone in a recombinant Chinese hamster ovary cell line. Proteomics, 2003, 3, 147-156.	2.2	52
31	Analysis of cotton (Gossypium hirsutum) root proteomes during a compatible interaction with the black root rot fungus Thielaviopsis basicola. Proteomics, 2009, 9, 335-349.	2.2	50
32	Effects of Low-Dose Prednisolone on Hepatic and Peripheral Insulin Sensitivity, Insulin Secretion, and Abdominal Adiposity in Patients With Inflammatory Rheumatologic Disease. Diabetes Care, 2013, 36, 2822-2829.	8.6	49
33	Comparison of Single Phase and Biphasic Extraction Protocols for Lipidomic Studies Using Human Plasma. Frontiers in Neurology, 2019, 10, 879.	2.4	48
34	Global Proteomic Analysis of the Insoluble, Soluble, and Supernatant Fractions of the Psychrophilic Archaeon Methanococcoides burtonii Part I: The Effect of Growth Temperature. Journal of Proteome Research, 2010, 9, 640-652.	3.7	47
35	Induced pluripotent stem cells as tools for disease modelling and drug discovery in Alzheimerâ€™s disease. Journal of Neural Transmission, 2013, 120, 103-111.	2.8	47
36	Fluorometric and Mass Spectrometric Analysis of Nonenzymatic Glycosylated Albumin. Biochemical and Biophysical Research Communications, 2001, 284, 83-89.	2.1	46

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37	Consumption of pomegranates improves synaptic function in a transgenic mice model of Alzheimer's disease. Oncotarget, 2016, 7, 64589-64604.	1.8	46
38	Metal and complementary molecular bioimaging in Alzheimer's disease. Frontiers in Aging Neuroscience, 2014, 6, 138.	3.4	44
39	Amino Acid Analysis of Peptides and Proteins on the Femtomole Scale by Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 1998, 70, 890-896.	6.5	43
40	A novel approach for enhancing the catalytic efficiency of a protease at low temperature: Reduction in substrate inhibition by chemical modification. Biotechnology and Bioengineering, 2009, 103, 676-686.	3.3	43
41	Physiological and Proteomic Responses of Continuous Cultures of Microcystis aeruginosa PCC 7806 to Changes in Iron Bioavailability and Growth Rate. Applied and Environmental Microbiology, 2016, 82, 5918-5929.	3.1	42
42	Plasma apolipoproteins and physical and cognitive health in very old individuals. Neurobiology of Aging, 2017, 55, 49-60.	3.1	42
43	Plasma lipidome variation during the second half of the human lifespan is associated with age and sex but minimally with BMI. PLoS ONE, 2019, 14, e0214141.	2.5	40
44	Proteomic profiling of skeletal and cardiac muscle in cancer cachexia: alterations in sarcomeric and mitochondrial protein expression. Oncotarget, 2018, 9, 22001-22022.	1.8	40
45	Changes in the plasma proteome at asymptomatic and symptomatic stages of autosomal dominant Alzheimerâ€™s disease. Scientific Reports, 2016, 6, 29078.	3.3	39
46	Molecular Targets of Tannic Acid in Alzheimer's Disease. Current Alzheimer Research, 2017, 14, 861-869.	1.4	37
47	Accelerating AlzheimerÊ¼s research through â€˜naturalâ€™ animal models. Current Opinion in Psychiatry, 2015, 28, 155-164.	6.3	36
48	Extending the Depth of Human Plasma Proteome Coverage Using Simple Fractionation Techniques. Journal of Proteome Research, 2021, 20, 1261-1279.	3.7	36
49	Quantification of hemorphins in Alzheimer's disease brains. Journal of Neuroscience Research, 2004, 75, 704-714.	2.9	35
50	A chemically modified Î±-amylase with a molten-globule state has entropically driven enhanced thermal stabilityâ€. Protein Engineering, Design and Selection, 2010, 23, 769-780.	2.1	33
51	Blood fatty acids in Alzheimerâ€™s disease and mild cognitive impairment: A meta-analysis and systematic review. Ageing Research Reviews, 2020, 60, 101043.	10.9	33
52	Matrix-assisted laser-desorption time-of flight ionisation and high-performance liquid chromatographyâ€“electrospray ionisation mass spectral analyses of two glycosylated recombinant epoetins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 785, 205-218.	2.3	32
53	Versatile peroxidase degradation of humic substances: Use of isothermal titration calorimetry to assess kinetics, and applications to industrial wastes. Journal of Biotechnology, 2014, 178, 1-11.	3.8	32
54	Quantitative proteomics of delirium cerebrospinal fluid. Translational Psychiatry, 2014, 4, e477-e477.	4.8	31

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55	Cold adaptation of the Antarctic haloarchaea Halohasta litchfieldiae and Halorubrum lacusprofundi. Environmental Microbiology, 2017, 19, 2210-2227.	3.8	31
56	Inhibition of indoleamine 2,3 dioxygenase activity by H2O2. Archives of Biochemistry and Biophysics, 2006, 450, 9-19.	3.0	30
57	Profilin-1 Overexpression in MDA-MB-231 Breast Cancer Cells Is Associated with Alterations in Proteomics Biomarkers of Cell Proliferation, Survival, and Motility as Revealed by Global Proteomics Analyses. OMICS A Journal of Integrative Biology, 2014, 18, 778-791.	2.0	29
58	The application of lipidomics to biomarker research and pathomechanisms in Alzheimer's disease. Current Opinion in Psychiatry, 2017, 30, 136-144.	6.3	29
59	The Estrogen-responsive B Box Protein Is a Novel Regulator of the Retinoid Signal. Journal of Biological Chemistry, 2006, 281, 18246-18256.	3.4	27
60	Quantitative determination ofortho- andmeta-tyrosine as biomarkers of protein oxidative damage in Î²-thalassemia. Redox Report, 2007, 12, 219-228.	4.5	27
61	Tropomyosins induce neuritogenesis and determine neurite branching patterns in B35 neuroblastoma cells. Molecular and Cellular Neurosciences, 2014, 58, 11-21.	2.2	27
62	Conserved Motifs as the Basis for Recognition of Homologous Proteins Across Species Boundaries Using Peptide-mass Fingerprinting. , 1997, 32, 370-378.		26
63	Green fluorescent protein expression triggers proteome changes in breast cancer cells. Experimental Cell Research, 2014, 320, 33-45.	2.6	26
64	Identification of Cerebral Metal Ion Imbalance in the Brain of Aging Octodon degus. Frontiers in Aging Neuroscience, 2017, 9, 66.	3.4	26
65	Nanoparticles as contrast agents for the diagnosis of Alzheimerâ€™s disease: a systematic review. Nanomedicine, 2020, 15, 725-743.	3.3	26
66	Global Proteomic Analysis of the Insoluble, Soluble, and Supernatant Fractions of the Psychrophilic Archaeon Methanococcoides burtonii Part II: The Effect of Different Methylated Growth Substrates. Journal of Proteome Research, 2010, 9, 653-663.	3.7	25
67	Proteomic assessment of hostâ€associated microevolution in the fungus Thielaviopsis basicola. Environmental Microbiology, 2011, 13, 576-588.	3.8	25
68	The Relationship Between Plasma AÎ² Levels, Cognitive Function and Brain Volumetrics: Sydney Memory and Ageing Study. Current Alzheimer Research, 2016, 13, 243-255.	1.4	25
69	Oxidative damage to proteins in yeast cells exposed to adaptive levels of H2O2. Redox Report, 2003, 8, 371-377.	4.5	22
70	Mapping p38Î± mitogenâ€activated protein kinase signaling by proximityâ€dependent labeling. Protein Science, 2020, 29, 1196-1210.	7.6	22
71	Resveratrol: A â€œmiracleâ€•drug in neuropsychiatry or a cognitive enhancer for mice only? A systematic review and meta-analysis. Ageing Research Reviews, 2021, 65, 101199.	10.9	22
72	Upregulation of Glycolytic Enzymes, Mitochondrial Dysfunction and Increased Cytotoxicity in Glial Cells Treated with Alzheimerâ€™s Disease Plasma. PLoS ONE, 2015, 10, e0116092.	2.5	22

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73	Genome-wide significant results identified for plasma apolipoprotein H levels in middle-aged and older adults. Scientific Reports, 2016, 6, 23675.	3.3	20
74	DNA Methylation in the Apolipoprotein-A1 Gene is Associated with Episodic Memory Performance in Healthy Older Individuals. Journal of Alzheimer's Disease, 2015, 44, 175-182.	2.6	19
75	A new broad specificity alkaline metalloprotease from a Pseudomonas sp. isolated from refrigerated milk: Role of calcium in improving enzyme productivity. Journal of Molecular Catalysis B: Enzymatic, 2015, 113, 1-8.	1.8	19
76	Formoterol, a Highly Î²2-Selective Agonist, Induces Gender-Dimorphic Whole Body Leucine Metabolism in Humans. Metabolism: Clinical and Experimental, 2015, 64, 506-512.	3.4	19
77	Plasma lipidomic biomarker analysis reveals distinct lipid changes in vascular dementia. Computational and Structural Biotechnology Journal, 2020, 18, 1613-1624.	4.1	19
78	Testosterone prevents protein loss via the hepatic urea cycle in human. European Journal of Endocrinology, 2017, 176, 489-496.	3.7	18
79	Enhancement of lipase stability and productivity through chemical modification and its application to latex-based polymer emulsions. Process Biochemistry, 2017, 57, 131-140.	3.7	18
80	Evaluating Enzymatic Productivityâ€"The Missing Link to Enzyme Utility. International Journal of Molecular Sciences, 2022, 23, 6908.	4.1	18
81	Oral low-dose testosterone administration induces whole-body protein anabolism in postmenopausal women: a novel liver-targeted therapy. European Journal of Endocrinology, 2013, 169, 321-327.	3.7	14
82	Plantâ€extractâ€induced changes in the proteome of the soilâ€borne pathogenic fungus Thielaviopsis basicola. Proteomics, 2010, 10, 1573-1591.	2.2	13
83	Cellular Responses during Morphological Transformation in Azospirillum brasilense and Its flcA Knockout Mutant. PLoS ONE, 2014, 9, e114435.	2.5	13
84	APOE Genotype Differentially Modulates Plasma Lipids in Healthy Older Individuals, with Relevance to Brain Health. Journal of Alzheimer's Disease, 2019, 72, 703-716.	2.6	13
85	Low dose prednisolone and insulin sensitivity differentially affect arterial stiffness and endothelial function: An open interventional and cross-sectional study. Atherosclerosis, 2017, 258, 34-39.	0.8	12
86	Recovery of peptides and proteins following matrix-assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 1995, 9, 233-239.	1.5	10
87	Plasma amyloid beta peptides: an Alzheimerâ€™s conundrum or a more accessible Alzheimerâ€™s biomarker?. Expert Review of Neurotherapeutics, 2017, 17, 3-5.	2.8	9
88	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins. ELife, 2020, 9, .	6.0	8
89	Cerebrospinal Fluid Apolipoprotein E Levels in Delirium. Dementia and Geriatric Cognitive Disorders Extra, 2017, 7, 240-248.	1.3	6
90	Muscle Sympathetic Nerve Activity Is Associated with Liver Insulin Sensitivity in Obese Non-Diabetic Men. Frontiers in Physiology, 2017, 8, 101.	2.8	5

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91	Measurement ofo- andm-tyrosine as markers of oxidative damage in motor neuron disease. Redox Report, 2000, 5, 137-140.	4.5	4
92	Fluid Biomarkers and APOE Status of Early Onset Alzheimerâ€™s Disease Variants: A Systematic Review and Meta-Analysis. Journal of Alzheimer's Disease, 2020, 75, 827-843.	2.6	4
93	The need for a reliable oxytocin assay. Molecular Psychiatry, 2021, , .	7.9	3
94	A potent liver-mediated mechanism for loss of muscle mass during androgen deprivation therapy. Endocrine Connections, 2019, 8, 605-615.	1.9	3
95	Causes and Diagnosis of Alzheimers Disease: A Proteomics Approach. Current Proteomics, 2006, 3, 81-112.	0.3	2
96	Lipids, brain ageing, dementia, and lipidomics. , 2020, , 183-205.		2
97	Comparative proteomics of the toxigenic diazotroph Raphidiopsis raciborskii (cyanobacteria) in response to iron. Environmental Microbiology, 2021, 23, 405-414.	3.8	2
98	Quantitative Assays of Plasma Apolipoproteins. Methods in Molecular Biology, 2020, 2138, 49-81.	0.9	2
99	[P2â€“080]: IDENTIFICATION OF CEREBRAL METAL ION IMBALANCE IN THE BRAIN OF AGEING OCTODON DEGUS: A NATURAL MODEL FOR ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P636.	0.8	1
100	Ionotropic Receptors in the Central Nervous System and Neurodegenerative Disease. , 2014, , 1071-1092.		1
101	Nicotinamide Adenine Dinucleotide (NAD+) in Aging. , 2019, , 1-10.		1
102	Differential mitochondrial protein interaction profile between human translocator protein and its A147T polymorphism variant. PLoS ONE, 2022, 17, e0254296.	2.5	1
103	P3-128: Plasma Apolipoproteins and Physical And Cognitive Health in Very Old Individuals. , 2016, 12, P868-P868.		0
104	[P2â€“155]: PROTEOMICS OF THE ALZHEIMER'S DISEASE BRAIN: NEUROPATHOLOGY AND NEURORESILIENCE. Alzheimer's and Dementia, 2017, 13, P667.	0.8	0
105	[P2â€“182]: SIRTUIN PROTEIN AND RELATED ENERGY METABOLITE CHANGES IN THE ALZHEIMER BRAIN. Alzheimer's and Dementia, 2017, 13, P676.	0.8	0
106	Hormetic effects of alcohol in an astroglial cellular model and its proteomics signature. Alzheimer's and Dementia, 2020, 16, e041665.	0.8	0
107	Drug Treatments for Alzheimerâ€™s Disease: Hopes and Challenges. , 2014, , 1173-1190.		0
108	Glutamate in the Pathogenesis of Gliomas. , 2014, , 1287-1298.		0

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109	Nicotinamide Adenine Dinucleotide (NAD+) in Aging. , 2021, , 3496-3505.		0