

# 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	Differential mitochondrial protein interaction profile between human translocator protein and its A147T polymorphism variant. PLoS ONE, 2022, 17, e0254296.	2.5	1
2	Evaluating Enzymatic Productivityâ€”The Missing Link to Enzyme Utility. International Journal of Molecular Sciences, 2022, 23, 6908.	4.1	18
3	Comparative proteomics of the toxigenic diazotroph Raphidiopsis raciborskii (cyanobacteria) in response to iron. Environmental Microbiology, 2021, 23, 405-414.	3.8	2
4	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
5	Extending the Depth of Human Plasma Proteome Coverage Using Simple Fractionation Techniques. Journal of Proteome Research, 2021, 20, 1261-1279.	3.7	36
6	The need for a reliable oxytocin assay. Molecular Psychiatry, 2021, , .	7.9	3
7	Nicotinamide Adenine Dinucleotide (NAD+) in Aging. , 2021, , 3496-3505.		0
8	Hormetic effects of alcohol in an astroglial cellular model and its proteomics signature. Alzheimer's and Dementia, 2020, 16, e041665.	0.8	0
9	Lipids, brain ageing, dementia, and lipidomics. , 2020, , 183-205.		2
10	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
11	Plasma lipidomic biomarker analysis reveals distinct lipid changes in vascular dementia. Computational and Structural Biotechnology Journal, 2020, 18, 1613-1624.	4.1	19
12	Nanoparticles as contrast agents for the diagnosis of Alzheimerâ€™s disease: a systematic review. Nanomedicine, 2020, 15, 725-743.	3.3	26
13	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
14	Mapping p38Î± mitogenâ€•activated protein kinase signaling by proximityâ€•dependent labeling. Protein Science, 2020, 29, 1196-1210.	7.6	22
15	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins. ELife, 2020, 9, .	6.0	8
16	Quantitative Assays of Plasma Apolipoproteins. Methods in Molecular Biology, 2020, 2138, 49-81.	0.9	2
17	The Plasma NAD<sup>+</sup> Metabolome Is Dysregulated in â€œNormalâ€•Aging. Rejuvenation Research, 2019, 22, 121-130.	1.8	137
18	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

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19	Comparison of Single Phase and Biphasic Extraction Protocols for Lipidomic Studies Using Human Plasma. <i>Frontiers in Neurology</i> , 2019, 10, 879.	2.4	48
20	Plasma lipidome variation during the second half of the human lifespan is associated with age and sex but minimally with BMI. <i>PLoS ONE</i> , 2019, 14, e0214141.	2.5	40
21	Role of Nicotinamide Adenine Dinucleotide and Related Precursors as Therapeutic Targets for Age-Related Degenerative Diseases: Rationale, Biochemistry, Pharmacokinetics, and Outcomes. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 251-294.	5.4	147
22	A potent liver-mediated mechanism for loss of muscle mass during androgen deprivation therapy. <i>Endocrine Connections</i> , 2019, 8, 605-615.	1.9	3
23	Nicotinamide Adenine Dinucleotide (NAD+) in Aging. , 2019, , 1-10.		1
24	An N-terminal motif unique to primate tau enables differential protein-protein interactions. <i>Journal of Biological Chemistry</i> , 2018, 293, 3710-3719.	3.4	53
25	Cerebral small vessel disease and the risk of Alzheimer's disease: A systematic review. <i>Ageing Research Reviews</i> , 2018, 47, 41-48.	10.9	62
26	Proteomic profiling of skeletal and cardiac muscle in cancer cachexia: alterations in sarcomeric and mitochondrial protein expression. <i>Oncotarget</i> , 2018, 9, 22001-22022.	1.8	40
27	Testosterone prevents protein loss via the hepatic urea cycle in human. <i>European Journal of Endocrinology</i> , 2017, 176, 489-496.	3.7	18
28	Dysregulation of lipids in Alzheimer's disease and their role as potential biomarkers. <i>Alzheimer's and Dementia</i> , 2017, 13, 810-827.	0.8	146
29	Cold adaptation of the Antarctic haloarchaea <i>Halohasta litchfieldiae</i> and <i>Halorubrum lacusprofundi</i> . <i>Environmental Microbiology</i> , 2017, 19, 2210-2227.	3.8	31
30	Low dose prednisolone and insulin sensitivity differentially affect arterial stiffness and endothelial function: An open interventional and cross-sectional study. <i>Atherosclerosis</i> , 2017, 258, 34-39.	0.8	12
31	Plasma apolipoproteins and physical and cognitive health in very old individuals. <i>Neurobiology of Aging</i> , 2017, 55, 49-60.	3.1	42
32	Enhancement of lipase stability and productivity through chemical modification and its application to latex-based polymer emulsions. <i>Process Biochemistry</i> , 2017, 57, 131-140.	3.7	18
33	Cerebrospinal Fluid Apolipoprotein E Levels in Delirium. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2017, 7, 240-248.	1.3	6
34	The application of lipidomics to biomarker research and pathomechanisms in Alzheimer's disease. <i>Current Opinion in Psychiatry</i> , 2017, 30, 136-144.	6.3	29
35	Plasma amyloid beta peptides: an Alzheimer's conundrum or a more accessible Alzheimer's biomarker?. <i>Expert Review of Neurotherapeutics</i> , 2017, 17, 3-5.	2.8	9
36	[P2080]: IDENTIFICATION OF CEREBRAL METAL ION IMBALANCE IN THE BRAIN OF AGEING OCTODON DEGUS: A NATURAL MODEL FOR ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P636.	0.8	1

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37	[P2â€“155]: PROTEOMICS OF THE ALZHEIMER'S DISEASE BRAIN: NEUROPATHOLOGY AND NEURORESILIENCE. Alzheimer's and Dementia, 2017, 13, P667.	0.8	0
38	[P2â€“182]: SIRTUIN PROTEIN AND RELATED ENERGY METABOLITE CHANGES IN THE ALZHEIMER BRAIN. Alzheimer's and Dementia, 2017, 13, P676.	0.8	0
39	Muscle Sympathetic Nerve Activity Is Associated with Liver Insulin Sensitivity in Obese Non-Diabetic Men. Frontiers in Physiology, 2017, 8, 101.	2.8	5
40	Identification of Cerebral Metal Ion Imbalance in the Brain of Aging Octodon degus. Frontiers in Aging Neuroscience, 2017, 9, 66.	3.4	26
41	Molecular Targets of Tannic Acid in Alzheimer's Disease. Current Alzheimer Research, 2017, 14, 861-869.	1.4	37
42	P3-128: Plasma Apolipoproteins and Physical And Cognitive Health in Very Old Individuals. , 2016, 12, P868-P868.		0
43	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
44	Changes in the plasma proteome at asymptomatic and symptomatic stages of autosomal dominant Alzheimerâ€™s disease. Scientific Reports, 2016, 6, 29078.	3.3	39
45	Site-specific phosphorylation of tau inhibits amyloid-Î² toxicity in Alzheimerâ€™s mice. Science, 2016, 354, 904-908.	12.6	241
46	Genome-wide significant results identified for plasma apolipoprotein H levels in middle-aged and older adults. Scientific Reports, 2016, 6, 23675.	3.3	20
47	Consumption of pomegranates improves synaptic function in a transgenic mice model of Alzheimer's disease. Oncotarget, 2016, 7, 64589-64604.	1.8	46
48	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
49	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
50	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
51	Differential expression of sirtuins in the aging rat brain. Frontiers in Cellular Neuroscience, 2015, 9, 167.	3.7	119
52	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
53	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
54	Accelerating Alzheimer's research through "natural" animal models. Current Opinion in Psychiatry, 2015, 28, 155-164.	6.3	36

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55	Phenotypic Characterization of Insulin-Resistant and Insulin-Sensitive Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 4082-4091.	3.6	58
56	Upregulation of Glycolytic Enzymes, Mitochondrial Dysfunction and Increased Cytotoxicity in Glial Cells Treated with Alzheimer's Disease Plasma. <i>PLoS ONE</i> , 2015, 10, e0116092.	2.5	22
57	Cellular Responses during Morphological Transformation in <i>Azospirillum brasilense</i> and Its <i>fliA</i> Knockout Mutant. <i>PLoS ONE</i> , 2014, 9, e114435.	2.5	13
58	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. <i>OMICS A Journal of Integrative Biology</i> , 2014, 18, 778-791.	2.0	29
59	Plasma Protein Profiling of Mild Cognitive Impairment and Alzheimer's Disease Across Two Independent Cohorts. <i>Journal of Alzheimer's Disease</i> , 2014, 43, 1355-1373.	2.6	68
60	Mapping NAD <sup>+</sup> metabolism in the brain of ageing Wistar rats: potential targets for influencing brain senescence. <i>Biogerontology</i> , 2014, 15, 177-198.	3.9	95
61	Plasma protein profiling of Mild Cognitive Impairment and Alzheimer's disease using iTRAQ quantitative proteomics. <i>Proteome Science</i> , 2014, 12, 5.	1.7	67
62	Tropomyosins induce neuritogenesis and determine neurite branching patterns in B35 neuroblastoma cells. <i>Molecular and Cellular Neurosciences</i> , 2014, 58, 11-21.	2.2	27
63	Versatile peroxidase degradation of humic substances: Use of isothermal titration calorimetry to assess kinetics, and applications to industrial wastes. <i>Journal of Biotechnology</i> , 2014, 178, 1-11.	3.8	32
64	Quantitative proteomics of delirium cerebrospinal fluid. <i>Translational Psychiatry</i> , 2014, 4, e477-e477.	4.8	31
65	Green fluorescent protein expression triggers proteome changes in breast cancer cells. <i>Experimental Cell Research</i> , 2014, 320, 33-45.	2.6	26
66	Metal and complementary molecular bioimaging in Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 138.	3.4	44
67	Drug Treatments for Alzheimer's Disease: Hopes and Challenges. , 2014, , 1173-1190.		0
68	Ionotropic Receptors in the Central Nervous System and Neurodegenerative Disease. , 2014, , 1071-1092.		1
69	Glutamate in the Pathogenesis of Gliomas. , 2014, , 1287-1298.		0
70	The role of polyphenols in the modulation of sirtuins and other pathways involved in Alzheimer's disease. <i>Ageing Research Reviews</i> , 2013, 12, 867-883.	10.9	105
71	Induced pluripotent stem cells as tools for disease modelling and drug discovery in Alzheimer's disease. <i>Journal of Neural Transmission</i> , 2013, 120, 103-111.	2.8	47
72	Oral low-dose testosterone administration induces whole-body protein anabolism in postmenopausal women: a novel liver-targeted therapy. <i>European Journal of Endocrinology</i> , 2013, 169, 321-327.	3.7	14

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73	Effects of Low-Dose Prednisolone on Hepatic and Peripheral Insulin Sensitivity, Insulin Secretion, and Abdominal Adiposity in Patients With Inflammatory Rheumatologic Disease. <i>Diabetes Care</i> , 2013, 36, 2822-2829.	8.6	49
74	Sirtuins in cognitive ageing and Alzheimer's disease. <i>Current Opinion in Psychiatry</i> , 2012, 25, 226-230.	6.3	70
75	Plasma Apolipoprotein Levels Are Associated with Cognitive Status and Decline in a Community Cohort of Older Individuals. <i>PLoS ONE</i> , 2012, 7, e34078.	2.5	158
76	Meta-Analysis of Plasma Amyloid- $\beta$ levels in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 365-375.	2.6	123
77	Proteomic assessment of host-associated microevolution in the fungus <i>Thielaviopsis basicola</i> . <i>Environmental Microbiology</i> , 2011, 13, 576-588.	3.8	25
78	Defining the response of a microorganism to temperatures that span its complete growth temperature range (4°C to 28°C) using multiplex quantitative proteomics. <i>Environmental Microbiology</i> , 2011, 13, 2186-2203.	3.8	64
79	Age Related Changes in NAD <sup>+</sup> Metabolism Oxidative Stress and Sirt1 Activity in Wistar Rats. <i>PLoS ONE</i> , 2011, 6, e19194.	2.5	508
80	Plant-extract-induced changes in the proteome of the soil-borne pathogenic fungus <i>Thielaviopsis basicola</i> . <i>Proteomics</i> , 2010, 10, 1573-1591.	2.2	13
81	$\beta$ and human amylin share a common toxicity pathway via mitochondrial dysfunction. <i>Proteomics</i> , 2010, 10, 1621-1633.	2.2	112
82	A novel prokaryotic arginine:glycine amidinotransferase is involved in cylindrospermopsin biosynthesis. <i>FEBS Journal</i> , 2010, 277, 3844-3860.	4.7	55
83	A chemically modified $\pm$ -amylase with a molten-globule state has entropically driven enhanced thermal stability. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 769-780.	2.1	33
84	Pancreatic stellate cells produce acetylcholine and may play a role in pancreatic exocrine secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17397-17402.	7.1	86
85	Global Proteomic Analysis of the Insoluble, Soluble, and Supernatant Fractions of the Psychrophilic Archaeon <i>Methanococoides burtonii</i> Part II: The Effect of Different Methylated Growth Substrates. <i>Journal of Proteome Research</i> , 2010, 9, 653-663.	3.7	25
86	Global Proteomic Analysis of the Insoluble, Soluble, and Supernatant Fractions of the Psychrophilic Archaeon <i>Methanococoides burtonii</i> Part I: The Effect of Growth Temperature. <i>Journal of Proteome Research</i> , 2010, 9, 640-652.	3.7	47
87	Plasma biomarkers for mild cognitive impairment and Alzheimer's disease. <i>Brain Research Reviews</i> , 2009, 61, 69-80.	9.0	165
88	A novel approach for enhancing the catalytic efficiency of a protease at low temperature: Reduction in substrate inhibition by chemical modification. <i>Biotechnology and Bioengineering</i> , 2009, 103, 676-686.	3.3	43
89	Analysis of cotton ( <i>Gossypium hirsutum</i> ) root proteomes during a compatible interaction with the black root rot fungus <i>Thielaviopsis basicola</i> . <i>Proteomics</i> , 2009, 9, 335-349.	2.2	50
90	Quantitative determination of ortho- and meta-tyrosine as biomarkers of protein oxidative damage in $\beta$ -thalassemia. <i>Redox Report</i> , 2007, 12, 219-228.	4.5	27

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91	Structure and Function of Cold Shock Proteins in Archaea. <i>Journal of Bacteriology</i> , 2007, 189, 5738-5748.	2.2	70
92	Inhibition of indoleamine 2,3 dioxygenase activity by H <sub>2</sub> O <sub>2</sub> . <i>Archives of Biochemistry and Biophysics</i> , 2006, 450, 9-19.	3.0	30
93	Role of lysine versus arginine in enzyme cold-adaptation: Modifying lysine to homo-arginine stabilizes the cold-adapted I $\alpha$ -amylase from <i>Pseudoalteromonas haloplanktis</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 486-501.	2.6	65
94	The Estrogen-responsive B Box Protein Is a Novel Regulator of the Retinoid Signal. <i>Journal of Biological Chemistry</i> , 2006, 281, 18246-18256.	3.4	27
95	Causes and Diagnosis of Alzheimers Disease: A Proteomics Approach. <i>Current Proteomics</i> , 2006, 3, 81-112.	0.3	2
96	Role of Disulfide Bridges in the Activity and Stability of a Cold-Active I $\alpha$ -Amylase. <i>Journal of Bacteriology</i> , 2005, 187, 6206-6212.	2.2	61
97	Quantification of hemorphins in Alzheimer's disease brains. <i>Journal of Neuroscience Research</i> , 2004, 75, 704-714.	2.9	35
98	Matrix-assisted laser-desorption time-of flight ionisation and high-performance liquid chromatography-electrospray ionisation mass spectral analyses of two glycosylated recombinant epoetins. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 785, 205-218.	2.3	32
99	Identification of cellular changes associated with increased production of human growth hormone in a recombinant Chinese hamster ovary cell line. <i>Proteomics</i> , 2003, 3, 147-156.	2.2	52
100	Oxidative damage to proteins in yeast cells exposed to adaptive levels of H <sub>2</sub> O <sub>2</sub> . <i>Redox Report</i> , 2003, 8, 371-377.	4.5	22
101	Fluorometric and Mass Spectrometric Analysis of Nonenzymatic Glycosylated Albumin. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 83-89.	2.1	46
102	Measurements of protein carbonyls, ortho- and meta-tyrosine and oxidative phosphorylation complex activity in mitochondria from young and old rats. <i>Free Radical Biology and Medicine</i> , 2001, 31, 181-190.	2.9	112
103	Measurement of o- and m-tyrosine as markers of oxidative damage in motor neuron disease. <i>Redox Report</i> , 2000, 5, 137-140.	4.5	4
104	Amino Acid Analysis of Peptides and Proteins on the Femtomole Scale by Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 890-896.	6.5	43
105	Conserved Motifs as the Basis for Recognition of Homologous Proteins Across Species Boundaries Using Peptide-mass Fingerprinting. , 1997, 32, 370-378.		26
106	Progress with gene-product mapping of the Mollicutes: <i>Mycoplasma genitalium</i> . <i>Electrophoresis</i> , 1995, 16, 1090-1094.	2.4	892
107	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. <i>Electrophoresis</i> , 1995, 16, 438-443.	2.4	136
108	Recovery of peptides and proteins following matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 233-239.	1.5	10

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109	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