

# Alessandra Castegna

## List of Publications by Year in descending order

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60  
papers

8,442  
citations

109311

35  
h-index

138468

58  
g-index

64  
all docs

64  
docs citations

64  
times ranked

10199  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Metabolic Signature of Macrophage Responses. <i>Frontiers in Immunology</i> , 2019, 10, 1462.	4.8	1,083
2	Evidence of oxidative damage in Alzheimer's disease brain: central role for amyloid $\beta$ -peptide. <i>Trends in Molecular Medicine</i> , 2001, 7, 548-554.	6.7	1,044
3	Evidence that amyloid beta-peptide-induced lipid peroxidation and its sequelae in Alzheimer's disease brain contribute to neuronal death. <i>Neurobiology of Aging</i> , 2002, 23, 655-664.	3.1	628
4	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. part I: creatine kinase BB, glutamine synthase, and ubiquitin carboxy-terminal hydrolase L-1. <i>Free Radical Biology and Medicine</i> , 2002, 33, 562-571.	2.9	545
5	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part II: dihydropyrimidinase-related protein 2, $\beta$ -enolase and heat shock cognate 71. <i>Journal of Neurochemistry</i> , 2002, 82, 1524-1532.	3.9	528
6	Proteomic identification of nitrated proteins in Alzheimer's disease brain. <i>Journal of Neurochemistry</i> , 2003, 85, 1394-1401.	3.9	514
7	Nutritional approaches to combat oxidative stress in Alzheimer's disease. <i>Journal of Nutritional Biochemistry</i> , 2002, 13, 444-461.	4.2	343
8	UCP2 transports C4 metabolites out of mitochondria, regulating glucose and glutamine oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 960-965.	7.1	322
9	Pharmacologic or Genetic Targeting of Glutamine Synthetase Skews Macrophages toward an M1-like Phenotype and Inhibits Tumor Metastasis. <i>Cell Reports</i> , 2017, 20, 1654-1666.	6.4	258
10	Identification of the Mitochondrial NAD <sup>+</sup> Transporter in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 1524-1531.	3.4	215
11	Mitochondrial DNA methylation as a next-generation biomarker and diagnostic tool. <i>Molecular Genetics and Metabolism</i> , 2013, 110, 25-34.	1.1	203
12	Proteomics in Alzheimer's disease: insights into potential mechanisms of neurodegeneration. <i>Journal of Neurochemistry</i> , 2003, 86, 1313-1327.	3.9	171
13	Quantitative proteomics analysis of specific protein expression and oxidative modification in aged senescence-accelerated-prone 8 mice brain. <i>Neuroscience</i> , 2004, 126, 915-926.	2.3	148
14	Identification of mitochondrial carriers in <i>Saccharomyces cerevisiae</i> by transport assay of reconstituted recombinant proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1249-1262.	1.0	147
15	Knockout of Slc25a19 causes mitochondrial thiamine pyrophosphate depletion, embryonic lethality, CNS malformations, and anemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15927-15932.	7.1	147
16	Proteomic identification of proteins oxidized by $\text{H}_2\text{O}_2$ in synaptosomes: Implications for Alzheimer's disease. <i>Brain Research</i> , 2005, 1044, 206-215.	2.2	137
17	Vitamin E and Neurodegenerative Disorders Associated with Oxidative Stress. <i>Nutritional Neuroscience</i> , 2002, 5, 229-239.	3.1	136
18	Reactive Oxygen Species in Macrophages: Sources and Targets. <i>Frontiers in Immunology</i> , 2021, 12, 734229.	4.8	134

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19	Impairment of methyl cycle affects mitochondrial methyl availability and glutathione level in Down's syndrome. <i>Molecular Genetics and Metabolism</i> , 2011, 102, 378-382.	1.1	119
20	Redox proteomics identification of oxidatively modified brain proteins in inherited Alzheimer's disease: An initial assessment. <i>Journal of Alzheimer's Disease</i> , 2006, 10, 391-397.	2.6	107
21	Identification and Functional Characterization of a Novel Mitochondrial Carrier for Citrate and Oxoglutarate in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 17359-17370.	3.4	107
22	Modulation of phospholipid asymmetry in synaptosomal membranes by the lipid peroxidation products, 4-hydroxynonenal and acrolein: implications for Alzheimer's disease. <i>Brain Research</i> , 2004, 1004, 193-197.	2.2	102
23	Proteomic analysis of brain proteins in the gracile axonal dystrophy ( <i>gad</i> ) mouse, a syndrome that emanates from dysfunctional ubiquitin carboxyl-terminal hydrolase 1, reveals oxidation of key proteins. <i>Journal of Neurochemistry</i> , 2004, 88, 1540-1546.	3.9	89
24	Acetylation of human mitochondrial citrate carrier modulates mitochondrial citrate/malate exchange activity to sustain NADPH production during macrophage activation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 729-738.	1.0	79
25	Metabolism and TAM functions "it takes two to tango". <i>FEBS Journal</i> , 2018, 285, 700-716.	4.7	73
26	The mitochondrial side of epigenetics. <i>Physiological Genomics</i> , 2015, 47, 299-307.	2.3	72
27	4-Hydroxynonenal oxidatively modifies histones: implications for Alzheimer's disease. <i>Neuroscience Letters</i> , 2004, 356, 155-158.	2.1	68
28	The Crowded Crosstalk between Cancer Cells and Stromal Microenvironment in Gynecological Malignancies: Biological Pathways and Therapeutic Implication. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2401.	4.1	67
29	Oxidative stress and reduced glutamine synthetase activity in the absence of inflammation in the cortex of mice with experimental allergic encephalomyelitis. <i>Neuroscience</i> , 2011, 185, 97-105.	2.3	61
30	Blockade of Glutamine Synthetase Enhances Inflammatory Response in Microglial Cells. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 351-363.	5.4	61
31	Hyperhomocysteinemia: Related genetic diseases and congenital defects, abnormal DNA methylation and newborn screening issues. <i>Molecular Genetics and Metabolism</i> , 2014, 113, 27-33.	1.1	53
32	Proteomics for the identification of specifically oxidized proteins in brain: Technology and application to the study of neurodegenerative disorders. <i>Amino Acids</i> , 2003, 25, 419-425.	2.7	48
33	Pharmacological targets of metabolism in disease: Opportunities from macrophages. , 2020, 210, 107521.		45
34	Glutamine Synthetase: Localization Dictates Outcome. <i>Genes</i> , 2018, 9, 108.	2.4	44
35	Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1249-1258.	1.0	39
36	Identification of mitochondrial thiamin diphosphate carriers from <i>Arabidopsis</i> and maize. <i>Functional and Integrative Genomics</i> , 2012, 12, 317-326.	3.5	37

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37	SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. <i>Human Molecular Genetics</i> , 2018, 27, 499-504.	2.9	37
38	<i>SLC25A26</i> overexpression impairs cell function via mtDNA hypermethylation and rewiring of methyl metabolism. <i>FEBS Journal</i> , 2017, 284, 967-984.	4.7	33
39	Role of FOXA in mitochondrial citrate carrier gene expression and insulin secretion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 220-224.	2.1	32
40	Identification of Mitochondrial Coenzyme A Transporters from Maize and Arabidopsis. <i>Plant Physiology</i> , 2013, 162, 581-588.	4.8	31
41	Glutamine synthetase desensitizes differentiated adipocytes to proinflammatory stimuli by raising intracellular glutamine levels. <i>FEBS Letters</i> , 2014, 588, 4807-4814.	2.8	31
42	Targeting monoamine oxidase to dampen NLRP3 inflammasome activation in inflammation. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1311-1313.	10.5	31
43	Derivatives of Xanthic Acid are Novel Antioxidants: Application to Synaptosomes. <i>Free Radical Research</i> , 2003, 37, 355-365.	3.3	30
44	Glufosinate constrains synchronous and metachronous metastasis by promoting anti-tumor macrophages. <i>EMBO Molecular Medicine</i> , 2020, 12, e11210.	6.9	29
45	The Effects of Chronic Lifelong Activation of the AHR Pathway by Industrial Chemical Pollutants on Female Human Reproduction. <i>PLoS ONE</i> , 2016, 11, e0152181.	2.5	23
46	The <i>Saccharomyces cerevisiae</i> gene YPR011c encodes a mitochondrial transporter of adenosine 5'-phosphosulfate and 3'-phospho-adenosine 5'-phosphosulfate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 326-334.	1.0	22
47	Down-regulation of the mitochondrial aspartate-glutamate carrier isoform 1 AGC1 inhibits proliferation and N-acetylaspartate synthesis in Neuro2A cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1422-1435.	3.8	22
48	N-acetylaspartate release by glutaminolytic ovarian cancer cells sustains protumoral macrophages. <i>EMBO Reports</i> , 2021, 22, e51981.	4.5	22
49	Clinical implications from proteomic studies in neurodegenerative diseases: lessons from mitochondrial proteins. <i>Expert Review of Proteomics</i> , 2016, 13, 259-274.	3.0	20
50	Monoamine oxidase-dependent histamine catabolism accounts for post-ischemic cardiac redox imbalance and injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3050-3059.	3.8	18
51	The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. <i>Science Signaling</i> , 2021, 14, eabf3838.	3.6	17
52	Mitochondrial carriers in inflammation induced by bacterial endotoxin and cytokines. <i>Biological Chemistry</i> , 2017, 398, 303-317.	2.5	13
53	Differential Expression of ADP/ATP Carriers as a Biomarker of Metabolic Remodeling and Survival in Kidney Cancers. <i>Biomolecules</i> , 2021, 11, 38.	4.0	12
54	Metabolic Features of Brain Function with Relevance to Clinical Features of Alzheimer and Parkinson Diseases. <i>Molecules</i> , 2022, 27, 951.	3.8	12

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55	Impact of Immunometabolism on Cancer Metastasis: A Focus on T Cells and Macrophages. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a037044.	6.2	10
56	Tumor growth of neurofibromin-deficient cells is driven by decreased respiration and hampered by NAD <sup>+</sup> and SIRT3. Cell Death and Differentiation, 2022, 29, 1996-2008.	11.2	8
57	The J2-Immortalized Murine Macrophage Cell Line Displays Phenotypical and Metabolic Features of Primary BMDMs in Their M1 and M2 Polarization State. Cancers, 2021, 13, 5478.	3.7	6
58	PNC2 ( <i>SLC25A36</i> ) Deficiency Associated With the Hyperinsulinism/Hyperammonemia Syndrome. Journal of Clinical Endocrinology and Metabolism, 2021, , .	3.6	5
59	Editorial: Metabolism Meets Function: Untangling the Cross-Talk Between Signaling and Metabolism. Frontiers in Oncology, 2020, 10, 607511.	2.8	3
60	UCP2 exports C4 metabolites out of mitochondria in exchange for phosphate. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e33.	1.0	0