Dana W Aswad

List of Publications by Year
in descending order

32 papers	1,161 citations	471509 17 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	884 citing authors

#	Article	IF	Citations
1	Isoaspartate in peptides and proteins: formation, significance, and analysis. Journal of Pharmaceutical and Biomedical Analysis, 2000, 21, 1129-1136.	2.8	222
2	Purification and Characterization of Two Distinct Isozymes of Protein Carboxymethylase from Bovine Brain. Journal of Neurochemistry, 1983, 40, 1718-1726.	3.9	95
3	Protein Repair in the Brain, Proteomic Analysis of Endogenous Substrates for Protein L-Isoaspartyl Methyltransferase in Mouse Brain. Journal of Biological Chemistry, 2006, 281, 33802-33813.	3.4	79
4	In vitro aging of calmodulin generates isoaspartate at multiple Asnâ€“Gly and Aspâ€“Gly sites in calciumâ€binding domains II, III, and IV. Protein Science, 1993, 2, 1648-1663.	7.6	74
5	Structural Integrity of Histone H2B in Vivo Requires the Activity of Protein l-IsoaspartateO-Methyltransferase, a Putative Protein Repair Enzyme. Journal of Biological Chemistry, 2001, 276, 37161-37165.	3.4	74
6	Optimal conditions for the use of protein l-isoaspartyl methyltransferase in assessing the isoaspartate content of peptides and proteins. Analytical Biochemistry, 1991, 192, 384-391.	2.4	63
7	Acquisition of chemiluminescent signals from immunoblots with a digital single-lens reflex camera. Analytical Biochemistry, 2010, 397, 129-131.	2.4	46
8	Protein L-Isoaspartyl Methyltransferase Catalyzes in Vivo Racemization of Aspartate-25 in Mammalian Histone H2B. Journal of Biological Chemistry, 2005, 280, 26094-26098.	3.4	40
9	Major degradation products of basic fibroblast growth factor: detection of succinimide and iso-aspartate in place of aspartate. Pharmaceutical Research, 1994, 11, 936-944.	3.5	39
10	Protein L-isoaspartyl methyltransferase in postmortem brains of aged humans. Neurobiology of Aging, 1991, 12, 19-24.	3.1	38
11	Sex Influences on the Brain: An Issue Whose Time Has Come. Neuron, 2015, 88, 1084-1085.	8.1	38
12	Endogenous Substrates for Protein Carboxyl Methyltransferase in Cytosolic Fractions of Bovine Brain. Journal of Neurochemistry, 1983, 41, 1702-1709.	3.9	36
13	Synapsin I Is a Major Endogenous Substrate for Protein L-Isoaspartyl Methyltransferase in Mammalian Brain. Journal of Biological Chemistry, 2006, 281, 8389-8398.	3.4	35
14	Kinetic properties of bovine brain proteinl-isoaspartyl methyltransferase determined using a synthetic isoaspartyl peptide substrate. Neurochemical Research, 1993, 18, 87-94.	3.3	34
15	Intracellular Protein Modification Associated with Altered T Cell Functions in Autoimmunity. Journal of Immunology, 2006, 177, 4541-4549.	0.8	32
16	Autoimmunity to isomerized histone H2B in systemic lupus erythematosus. Autoimmunity, 2013, 46, 6-13.	2.6	32
17	Accelerated protein damage in brains of PIMT+/âˆ’ mice; a possible model for the variability of cognitive decline in human aging. Neurobiology of Aging, 2015, 36, 1029-1036.	3.1	28
18	Isoaspartate Accumulation in Mouse Brain Is Associated with Altered Patterns of Protein Phosphorylation and Acetylation, Some of Which Are Highly Sex-Dependent. PLoS ONE, 2013, 8, e80758.	2.5	18

#	Article	IF	Citations
19	Isoaspartyl Formation in Creatine Kinase B Is Associated with Loss of Enzymatic Activity; Implications for the Linkage of Isoaspartate Accumulation and Neurological Dysfunction in the PIMT Knockout Mouse. PLoS ONE, 2014, 9, e100622.	2.5	18
20	Identification and Topography of Substrates for Protein Carboxyl Methyltransferase in Synaptic Membrane and Myelin-Enriched Fractions of Bovine and Rat Brain. Journal of Neurochemistry, 1985, 45, 1119-1127.	3.9	17
21	Protein carboxyl methyltransferase activity specific for age-modified aspartyl residues in mouse testes and ovaries: Evidence for translation during spermiogenesis. Gamete Research, 1989, 22, 307-319.	1.7	13
22	Human Erythrocyte Proteinl-Isoaspartyl Methyltransferase: Heritability of Basal Activity and Genetic Polymorphism for Thermal Stability. Archives of Biochemistry and Biophysics, 1997, 346, 277-286.	3.0	13
23	Isoaspartyl Protein Damage and Repair in Mouse Retina. , 2014, 55, 1572.		13
24	Selective cleavage of isoaspartyl peptide bonds by hydroxylamine after methyltransferase priming. Analytical Biochemistry, 2007, 364, 1-7.	2.4	12
25	The d-isoAsp-25 variant of histone H2B is highly enriched in active chromatin: potential role in the regulation of gene expression?. Amino Acids, 2016, 48, 599-603.	2.7	12
26	The effect of urea exposure on isoaspartyl content and protein l-isoaspartate methyltransferase activity in Drosophila melanogaster. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1999, 124, 423-427.	1.6	10
27	Considerations in the Identification of Endogenous Substrates for Protein L-Isoaspartyl Methyltransferase: The Case of Synuclein. PLoS ONE, 2012, 7, e43288.	2.5	10
28	Isoaspartylation appears to trigger small cell lung cancer-associated autoimmunity against neuronal protein ELAVL4. Journal of Neuroimmunology, 2016, 299, 70-78.	2.3	7
29	Polymorphic Variants of Human Protein l-Isoaspartyl Methyltransferase Affect Catalytic Activity, Aggregation, and Thermal Stability. Journal of Biological Chemistry, 2017, 292, 3656-3665.	3.4	6
30	New findings on SNP variants of human protein L-isoaspartyl methyltransferase that affect catalytic activity, thermal stability, and aggregation. PLoS ONE, 2018, 13, e0198266.	2.5	6
31	Changes in synapsin 1 phosphorylation and tubulin acetylation in mice deficient in protein Lâ€isoaspartyl methyltransferase. FASEB Journal, 2013, 27, 553.11.	0.5	1
32	Increase in intracellular protein modification associated with altered lymphocyte functions in autoimmunity. FASEB Journal, 2006, 20, A964.	0.5	0