William H Vensel

List of Publications by Year
in descending order

46 papers	3,591 citations	159585 30 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	3608 citing authors

#	Article	IF	Citations
1	Thioredoxin links redox to the regulation of fundamental processes of plant mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2642-2647.	7.1	306
2	Thioredoxin targets in plants: The first 30Âyears. Journal of Proteomics, 2009, 72, 452-474.	2.4	265
3	Proteome mapping of mature pollen ofArabidopsis thaliana. Proteomics, 2005, 5, 4864-4884.	2.2	238
4	Protein accumulation and composition in wheat grains: Effects of mineral nutrients and high temperature. European Journal of Agronomy, 2006, 25, 96-107.	4.1	201
5	Deciphering the complexities of the wheat flour proteome using quantitative two-dimensional electrophoresis, three proteases and tandem mass spectrometry. Proteome Science, 2011, 9, 10.	1.7	199
6	Developmental changes in the metabolic protein profiles of wheat endosperm. Proteomics, 2005, 5, 1594-1611.	2.2	188
7	Thioredoxin targets of developing wheat seeds identified by complementary proteomic approaches. Phytochemistry, 2004, 65, 1629-1640.	2.9	161
8	A complete ferredoxin/thioredoxin system regulates fundamental processes in amyloplasts. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2988-2993.	7.1	161
9	Digestibility of protein and starch from sorghum (Sorghum bicolor) is linked to biochemical and structural features of grain endosperm. Journal of Cereal Science, 2009, 49, 73-82.	3.7	157
10	Effect of high temperature on albumin and globulin accumulation in the endosperm proteome of the developing wheat grain. Journal of Cereal Science, 2009, 49, 12-23.	3.7	140
11	Thioredoxin-Linked Proteins Are Reduced during Germination of Medicago truncatula Seeds. Plant Physiology, 2007, 144, 1559-1579.	4.8	134
12	Proteome of amyloplasts isolated from developing wheat endosperm presents evidence of broad metabolic capability*. Journal of Experimental Botany, 2006, 57, 1591-1602.	4.8	125
13	Unraveling thioredoxin-linked metabolic processes of cereal starchy endosperm using proteomics. FEBS Letters, 2003, 547, 151-156.	2.8	104
14	Sequential Extraction and Quantitative Recovery of Gliadins, Glutenins, and Other Proteins from Small Samples of Wheat Flour. Journal of Agricultural and Food Chemistry, 2005, 53, 1575-1584.	5.2	99
15	Comparative proteomic analysis of the effect of temperature and fertilizer on gliadin and glutenin accumulation in the developing endosperm and flour from Triticum aestivum L. cv. Butte 86. Proteome Science, 2013, 11, 8.	1.7	83
16	The spectrum of low molecular weight alpha-amylase/protease inhibitor genes expressed in the US bread wheat cultivar Butte 86. BMC Research Notes, 2011, 4, 242.	1.4	82
17	Characterization of the 1B-Type Ï‰-Gliadins fromTriticum aestivumCultivar Butte. Cereal Chemistry, 2000, 77, 607-614.	2.2	75
18	Thioredoxin Reduction Alters the Solubility of Proteins of Wheat Starchy Endosperm: An Early Event in Cereal Germination. Plant and Cell Physiology, 2004, 45, 407-415.	3.1	68

#	Article	IF	Citations
19	Protein composition of wheat gluten polymer fractions determined by quantitative two-dimensional gel electrophoresis and tandem mass spectrometry. Proteome Science, 2014, 12, 8.	1.7	68
20	Comparative proteomic and transcriptional profiling of a bread wheat cultivar and its derived transgenic line overexpressing a low molecular weight glutenin subunit gene in the endosperm. Proteomics, 2008, 8, 2948-2966.	2.2	65
21	Differential effects of a post-anthesis fertilizer regimen on the wheat flour proteome determined by quantitative 2-DE. Proteome Science, 2011, 9, 46.	1.7	61
22	Specific Nongluten Proteins of Wheat Are Novel Target Antigens in Celiac Disease Humoral Response. Journal of Proteome Research, 2015, 14, 503-511.	3.7	60
23	Genomic and Proteomic Identification of a DNA-Binding Protein Used in the â€œFingerprintingâ€• ofCampylobacterSpecies and Strains by MALDI-TOF-MS Protein Biomarker Analysis. Analytical Chemistry, 2005, 77, 4897-4907.	6.5	58
24	Analysis of expressed sequence tags from a single wheat cultivar facilitates interpretation of tandem mass spectrometry data and discrimination of gamma gliadin proteins that may play different functional roles in flour. BMC Plant Biology, 2010, 10, 7.	3.6	45
25	Thioredoxin targets fundamental processes in a methane-producing archaeon, Methanocaldococcus jannaschii. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2608-2613.	7.1	41
26	Thioredoxin Target Proteins in Chloroplast Thylakoid Membranes. Antioxidants and Redox Signaling, 2006, 8, 1829-1834.	5.4	40
27	Integration of transcriptomic and proteomic data from a single wheat cultivar provides new tools for understanding the roles of individual alpha gliadin proteins in flour quality and celiac disease. Journal of Cereal Science, 2010, 52, 143-151.	3.7	39
28	Effect of cleavage enzyme, search algorithm and decoy database on mass spectrometric identification of wheat gluten proteins. Phytochemistry, 2011, 72, 1154-1161.	2.9	37
29	Globulins are the main seed storage proteins in Brachypodium distachyon. Theoretical and Applied Genetics, 2008, 117, 555-563.	3.6	34
30	Biochemical and genetic characterization of wheat (Triticum spp.) kernel polyphenol oxidases. Journal of Cereal Science, 2006, 44, 353-367.	3.7	33
31	Surface-Associated Proteins of Wheat Starch Granules: Suitability of Wheat Starch for Celiac Patients. Journal of Agricultural and Food Chemistry, 2008, 56, 10292-10302.	5.2	30
32	Assessing the Role of Oxidized Methionine at Position 213 in the Formation of Prions in Hamsters. Biochemistry, 2010, 49, 1854-1861.	2.5	25
33	Expression of globulin-2, a member of the cupin superfamily of proteins with similarity to known food allergens, is increased under high temperature regimens during wheat grain development. Journal of Cereal Science, 2009, 49, 47-54.	3.7	24
34	Sensitive, preclinical detection of prions in brain by nanospray liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 4023-4026.	1.5	20
35	An asparagine residue at the N-terminus affects the maturation process of low molecular weight glutenin subunits of wheat endosperm. BMC Plant Biology, 2014, 14, 64.	3.6	20
36	Purification and characterization of wheat Î±-gliadin synthesized in the yeast, Saccharomyces cerevisiae. Gene, 1992, 116, 119-127.	2.2	18

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37	An active pseudopeptide analog of the leucokinin insect neuropeptide family. International Journal of Peptide and Protein Research, 2009, 37, 220-223.	0.1	17
38	Proteomic Profiling and Epitope Analysis of the Complex Î±-, Î³-, and Ï‰-Gliadin Families in a Commercial Bread Wheat. Frontiers in Plant Science, 2018, 9, 818.	3.6	15
39	Effect of sulfate position on rnyotropic activity of the gastrin/CCKâ€like insect leucosulfakinins. International Journal of Peptide and Protein Research, 1989, 33, 223-229.	0.1	14
40	Purification and Characterization of the Glutenin Subunits of Triticum tauschii, Progenitor of the D Genome in Hexaploid Bread Wheat. Cereal Chemistry, 1997, 74, 108-114.	2.2	9
41	Variant high-molecular-weight glutenin subunits arising from biolistic transformation of wheat. Journal of Cereal Science, 2013, 57, 496-503.	3.7	9
42	RNA interference targeting rye secalins alters flour protein composition in a wheat variety carrying a 1BL.1RS translocation. Journal of Cereal Science, 2016, 68, 172-180.	3.7	9
43	Effects of post-anthesis fertilizer on the protein composition of the gluten polymer in a US bread wheat. Journal of Cereal Science, 2016, 68, 66-73.	3.7	8
44	Identification of wheat endosperm proteins by MALDI mass spectrometry and LC-MS/MS. Journal of Biomolecular Techniques, 2002, 13, 95-100.	1.5	3
45	Endosperm and Amyloplast Proteomes of Wheat Grain. , 0, , 207-222.		2
46	Minimizing N-to-O shift in Edman sequencing. Techniques in Protein Chemistry, 1995, 6, 177-184.	0.3	1