Susan B Altenbach

List of Publications by Year
in descending order

48 papers	2,865 citations	147801 31 h-index	223800 46 g-index
48 all docs	48 docs citations	48 times ranked	2198 citing authors

#	Article	IF	Citations
1	Effect of temperature on expression of genes encoding enzymes for starch biosynthesis in developing wheat endosperm. Plant Science, 2003, 164, 873-881.	3.6	276
2	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
3	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
4	Accumulation of a Brazil nut albumin in seeds of transgenic canola results in enhanced levels of seed protein methionine. Plant Molecular Biology, 1992, 18, 235-245.	3.9	186
5	Enhancement of the methionine content of seed proteins by the expression of a chimeric gene encoding a methionine-rich protein in transgenic plants. Plant Molecular Biology, 1989, 13, 513-522.	3.9	148
6	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
7	Cloning and sequence analysis of a cDNA encoding a Brazil nut protein exceptionally rich in methionine. Plant Molecular Biology, 1987, 8, 239-250.	3.9	108
8	New insights into the effects of high temperature, drought and post-anthesis fertilizer on wheat grain development. Journal of Cereal Science, 2012, 56, 39-50.	3.7	103
9	Gene Duplication and Evolution Dynamics in the Homeologous Regions Harboring Multiple Prolamin and Resistance Gene Families in Hexaploid Wheat. Frontiers in Plant Science, 2018, 9, 673.	3.6	84
10	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
11	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
12	LED Lighting â€" Modification of Growth, Metabolism, Yield and Flour Composition in Wheat by Spectral Quality and Intensity. Frontiers in Plant Science, 2018, 9, 605.	3.6	73
13	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
14	Dynamic Evolution of Î±-Gliadin Prolamin Gene Family in Homeologous Genomes of Hexaploid Wheat. Scientific Reports, 2018, 8, 5181.	3.3	68
15	Transformation of the US bread wheat â€˜Butte 86â€™ and silencing of omega-5 gliadin genesÂ. GM Crops, 2011, 2, 66-73.	1.9	62
16	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
17	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
18	Environmental Conditions During Wheat Grain Development Alter Temporal Regulation of Major Gluten Protein Genes. Cereal Chemistry, 2002, 79, 279-285.	2.2	59

#	Article	IF	Citations
19	Properties, biosynthesis and processing of a sulfur-rich protein in Brazil nut (Bertholletia excelsa) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.2	56
20	Silencing of omega-5 gliadins in transgenic wheat eliminates a major source of environmental variability and improves dough mixing properties of flour. BMC Plant Biology, 2014, 14, 393.	3.6	56
21	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
22	Transcript profiles of genes expressed in endosperm tissue are altered by high temperature during wheat grain development. Journal of Cereal Science, 2004, 40, 115-126.	3.7	44
23	Exploiting the reference genome sequence of hexaploid wheat: a proteomic study of flour proteins from the cultivar Chinese Spring. Functional and Integrative Genomics, 2020, 20, 1-16.	3.5	42
24	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
25	Elimination of Omega-1,2 Gliadins From Bread Wheat (Triticum aestivum) Flour: Effects on Immunogenic Potential and End-Use Quality. Frontiers in Plant Science, 2019, 10, 580.	3.6	39
26	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
27	Farinin: Characterization of a Novel Wheat Endosperm Protein Belonging to the Prolamin Superfamily. Journal of Agricultural and Food Chemistry, 2013, 61, 2407-2417.	5.2	37
28	Omega gliadin genes expressed in Triticum aestivum cv. Butte 86: Effects of post-anthesis fertilizer on transcript accumulation during grain development. Journal of Cereal Science, 2007, 46, 169-177.	3.7	36
29	Assessment of the Allergenic Potential of Transgenic Wheat (<i>Triticum aestivum</i>) with Reduced Levels of Ï‰5-Gliadins, the Major Sensitizing Allergen in Wheat-Dependent Exercise-Induced Anaphylaxis. Journal of Agricultural and Food Chemistry, 2015, 63, 9323-9332.	5.2	36
30	Manipulation of methionine-rich protein genes in plant seeds. Trends in Biotechnology, 1990, 8, 156-160.	9.3	35
31	Quantitative proteomic analysis of wheat grain proteins reveals differential effects of silencing of omega-5 gliadin genes in transgenic lines. Journal of Cereal Science, 2014, 59, 118-125.	3.7	35
32	New insights into structural organization and gene duplication in a 1.75â€Mb genomic region harboring the Î±â€gliadin gene family in Aegilops tauschii , the source of wheat D genome. Plant Journal, 2017, 92, 571-583.	5.7	29
33	Rapid evolution of Î±-gliadin gene family revealed by analyzing Gli-2 locus regions of wild emmer wheat. Functional and Integrative Genomics, 2019, 19, 993-1005.	3.5	28
34	Comprehensive identification of LMW-GS genes and their protein products in a common wheat variety. Functional and Integrative Genomics, 2016, 16, 269-279.	3.5	27
35	Genes encoding the PR-4 protein wheatwin are developmentally regulated in wheat grains and respond to high temperatures during grainfill. Plant Science, 2007, 173, 135-143.	3.6	26
36	Reducing the Immunogenic Potential of Wheat Flour: Silencing of Alpha Gliadin Genes in a U.S. Wheat Cultivar. Frontiers in Plant Science, 2020, 11, 20.	3.6	25

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37	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
38	Towards reducing the immunogenic potential of wheat flour: omega gliadins encoded by the D genome of hexaploid wheat may also harbor epitopes for the serious food allergy WDEIA. BMC Plant Biology, 2018, 18, 291.	3.6	23
39	Improved Method for Reliable HMW-GS Identification by RP-HPLC and SDS-PAGE in Common Wheat Cultivars. Molecules, 2017, 22, 1055.	3.8	22
40	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
41	Development of an Optimized MALDI-TOF-MS Method for High-Throughput Identification of High-Molecular-Weight Glutenin Subunits in Wheat. Molecules, 2020, 25, 4347.	3.8	10
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	Deciphering the immunogenic potential of wheat flour: a reference map of the salt-soluble proteome from the U.S. wheat Butte 86. Proteome Science, 2020, 18, 8.	1.7	6
45	Comparison of MALDI-TOF-MS and RP-HPLC as Rapid Screening Methods for Wheat Lines With Altered Gliadin Compositions. Frontiers in Plant Science, 2020, 11, 600489.	3.6	6
46	Proteomic Determination of Low-Molecular-Weight Glutenin Subunit Composition in Aroona Near-Isogenic Lines and Standard Wheat Cultivars. International Journal of Molecular Sciences, 2021, 22, 7709.	4.1	4
47	Proteomics of Wheat Flour. , 2017, , 57-73.		3
48	Endosperm and Amyloplast Proteomes of Wheat Grain. , 0, , 207-222.		2