Eliot M Herman

List of Publications by Year
in descending order

78 papers	6,552 citations	71102 41 h-index	76900 74 g-index
79 all docs	79 docs citations	79 times ranked	5345 citing authors

#	Article	IF	Citations
1	Removal of three proteinaceous antinutrients from soybean does not mitigate soybean-induced enteritis in Atlantic salmon (Salmo salar, L). Aquaculture, 2020, 514, 734495.	3.5	27
2	Soybean-derived recombinant human epidermal growth factor protects against experimental necrotizing enterocolitis. Journal of Pediatric Surgery, 2018, 53, 1203-1207.	1.6	13
3	Characterization and functional biology of the soybean aleurone layer. BMC Plant Biology, 2018, 18, 354.	3.6	7
4	The Potential for Engineering Enhanced Functional-Feed Soybeans for Sustainable Aquaculture Feed. Frontiers in Plant Science, 2016, 7, 440.	3.6	25
5	Transgenic Soybean Production of Bioactive Human Epidermal Growth Factor (EGF). PLoS ONE, 2016, 11, e0157034.	2.5	19
6	Breeding and characterization of soybean <i>Triple Null;</i> a stack of recessive alleles of Kunitz Trypsin Inhibitor, Soybean Agglutinin, and P34 allergen nulls. Plant Breeding, 2015, 134, 310-315.	1.9	36
7	Towards Using Biotechnology to Modify Soybean Seeds as Protein Bioreactors. , 2015, , 193-212.		4
8	Transgenic soya bean seeds accumulating Î²â€carotene exhibit the collateral enhancements of oleate and protein content traits. Plant Biotechnology Journal, 2015, 13, 590-600.	8.3	53
9	Soybean seed proteome rebalancing. Frontiers in Plant Science, 2014, 5, 437.	3.6	45
10	The Path to Economically Viable Foreign Protein Co-Products of Oilseeds. , 2012, , 227-238.		0
11	The impact of plant biotechnology on food allergy. Current Opinion in Biotechnology, 2011, 22, 224-230.	6.6	22
12	Silencing of Soybean Seed Storage Proteins Results in a Rebalanced Protein Composition Preserving Seed Protein Content without Major Collateral Changes in the Metabolome and Transcriptome Â. Plant Physiology, 2011, 156, 330-345.	4.8	135
13	Industrial protein production crops: New needs and new opportunities. GM Crops, 2010, 1, 2-7.	1.9	6
14	Strategic research, education and policy goals for seed science and crop improvement. Plant Science, 2010, 179, 645-652.	3.6	19
15	Association of a Fourâ€Basepair Insertion in the P34 Gene with the Lowâ€Allergen Trait in Soybean. Plant Genome, 2009, 2, .	2.8	20
16	Mitigation of Soybean Allergy by Development of Low Allergen Content Seeds. ACS Symposium Series, 2008, , 431-445.	0.5	3
17	Proteome rebalancing in soybean seeds can be exploited to enhance foreign protein accumulation. Plant Biotechnology Journal, 2008, 6, 832-842.	8.3	82
18	Endoplasmic reticulum bodies: solving the insoluble. Current Opinion in Plant Biology, 2008, 11, 672-679.	7.1	65

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19	Suppression of Soybean Oleosin Produces Micro-Oil Bodies that Aggregate into Oil Body/ER Complexes. Molecular Plant, 2008, 1, 910-924.	8.3	118
20	Report of the Plant Products in Aquafeed Strategic Planning Workshop: An Integrated, Interdisciplinary Research Roadmap for Increasing Utilization of Plant Feedstuffs in Diets for Carnivorous Fish. Reviews in Fisheries Science, 2008, 16, 449-455.	2.1	65
21	Production of Escherichia coli heat labile toxin (LT) B subunit in soybean seed and analysis of its immunogenicity as an oral vaccine. Vaccine, 2007, 25, 1647-1657.	3.8	120
22	Using Arabidopsis thaliana as a model to study subzero acclimation in small grains. Cryobiology, 2007, 54, 154-163.	0.7	22
23	Expanding the utilization of sustainable plant products in aquafeeds: a review. Aquaculture Research, 2007, 38, 551-579.	1.8	1,660
24	Reduction of protease inhibitor activity by expression of a mutant Bowman-Birk gene in soybean seed. Plant Molecular Biology, 2007, 64, 397-408.	3.9	22
25	Additional freeze hardiness in wheat acquired by exposure to â˜3 Â°C is associated with extensive physiological, morphological, and molecular changes. Journal of Experimental Botany, 2006, 57, 3601-3618.	4.8	115
26	Evaluation of Glycine Germplasm for Nulls of the Immunodominant Allergen P34/Gly m Bd 30k. Crop Science, 2006, 46, 1755-1763.	1.8	61
27	Exogenous trehalose alters Arabidopsis transcripts involved in cell wall modification, abiotic stress, nitrogen metabolism, and plant defense. Physiologia Plantarum, 2005, 125, 114-126.	5.2	117
28	Soybean Allergenicity and Suppression of the Immunodominant Allergen. Crop Science, 2005, 45, 462-467.	1.8	26
29	The Role of Aquaporins and Membrane Damage in Chilling and Hydrogen Peroxide Induced Changes in the Hydraulic Conductance of Maize Roots. Plant Physiology, 2005, 137, 341-353.	4.8	230
30	Exogenous trehalose promotes non-structural carbohydrate accumulation and induces chemical detoxification and stress response proteins in Arabidopsis thaliana grown in liquid culture. Plant Science, 2005, 168, 1293-1301.	3.6	45
31	Endoplasmic Reticulum to Vacuole Trafficking of Endoplasmic Reticulum Bodies Provides an Alternate Pathway for Protein Transfer to the Vacuole. Plant Physiology, 2004, 136, 3440-3446.	4.8	67
32	Dinoflagellate Expressed Sequence Tag Data Indicate Massive Transfer of Chloroplast Genes to the Nuclear Genome. Protist, 2004, 155, 65-78.	1.5	154
33	Allergenic Reponses to Legume Proteins. , 2004, , .		1
34	Differential distribution of the cognate and heat-stress-induced isoforms of high Mr cis-trans prolyl peptidyl isomerase (FKBP) in the cytoplasm and nucleoplasm. Journal of Experimental Botany, 2003, 54, 2679-2689.	4.8	17
35	Genetic Modification Removes an Immunodominant Allergen from Soybean,. Plant Physiology, 2003, 132, 36-43.	4.8	301
36	Genetically modified soybeans and food allergies. Journal of Experimental Botany, 2003, 54, 1317-1319.	4.8	66

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37	The P34 Syringolide Elicitor Receptor Interacts with a Soybean Photorespiration Enzyme, NADH-Dependent Hydroxypyruvate Reductase. Molecular Plant-Microbe Interactions, 2002, 15, 1213-1218.	2.6	26
38	Cosuppression of the a Subunits of b-Conglycinin in Transgenic Soybean Seeds Induces the Formation of Endoplasmic Reticulum-Derived Protein Bodies. Plant Cell, 2001, 13, 1165.	6.6	4
39	Cosuppression of the Î± Subunits of Î²-Conglycinin in Transgenic Soybean Seeds Induces the Formation of Endoplasmic Reticulumâ€"Derived Protein Bodies. Plant Cell, 2001, 13, 1165-1178.	6.6	111
40	Expression patterns of genes encoding endomembrane proteins support a reduced function of the Golgi in wheat endosperm during the onset of storage protein deposition. Journal of Experimental Botany, 2001, 52, 2387-2388.	4.8	24
41	PLANT SEEDS: AN EXCITING MODEL SYSTEM FOR DISSECTING MOLECULAR AND CELLULAR REGULATION OF METABOLIC PROCESSES. Israel Journal of Plant Sciences, 2000, 48, 181-187.	0.5	2
42	Endoplasmic Reticulum-Derived Compartments Function in Storage and as Mediators of Vacuolar Remodeling via a New Type of Organelle, Precursor Protease Vesicles: Fig. 1.. Plant Physiology, 2000, 123, 1227-1234.	4.8	103
43	Mutational analysis of the IgE-binding epitopes of P34/Gly m Bd 30K. Journal of Allergy and Clinical Immunology, 2000, 105, 378-384.	2.9	91
44	Protein Storage Bodies and Vacuoles. Plant Cell, 1999, 11, 601.	6.6	5
45	The Wheat Peptidyl Prolylcis-trans-Isomerase FKBP77 Is Heat Induced and Developmentally Regulated1. Plant Physiology, 1999, 119, 693-704.	4.8	77
46	Protein Storage Bodies and Vacuoles. Plant Cell, 1999, 11, 601-613.	6.6	374
47	Posttranslational Removal of the Carboxyl-terminal KDEL of the Cysteine Protease SH-EP Occurs Prior to Maturation of the Enzyme. Journal of Biological Chemistry, 1999, 274, 11390-11398.	3.4	25
48	Posttranslational removal of the carboxyl-terminal KDEL of the cysteine protease SH-EP occurs prior to maturation of the enzyme.. Journal of Biological Chemistry, 1999, 274, 25188.	3.4	1
49	Characterization of a Maize Tonoplast Aquaporin Expressed in Zones of Cell Division and Elongation1. Plant Physiology, 1998, 117, 1143-1152.	4.8	142
50	Cellular and Molecular Characterization of a Major Soybean Allergen. International Archives of Allergy and Immunology, 1998, 117, 29-37.	2.1	95
51	The upstream domain of soybean oleosin genes contains regulatory elements similar to those of legume storage proteins. Lipids and Lipid Metabolism, 1997, 1345, 1-4.	2.6	15
52	Expression and subcellular targeting of a soybean oleosin in transgenic rapeseed. Implications for the mechanism of oil-body formation in seeds. Plant Journal, 1997, 11, 783-796.	5.7	95
53	Binding-protein expression is subject to temporal, developmental and stress-induced regulation in terminally differentiated soybean organs. Planta, 1995, 195, 611-21.	3.2	72
54	Degradation of transport-competent destabilized phaseolin with a signal for retention in the endoplasmic reticulum occurs in the vacuole. Planta, 1995, 196, 586-96.	3.2	56

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55	Protein storage vacuoles of soybean aleurone cells accumulate a unique glycoprotein. Plant Science, 1995, 107, 57-67.	3.6	10
56	Correct Post-Translational Modification and Stable Vacuolar Accumulation of Phytohemagglutinin Engineered to Contain Multiple Methionine Residues. FEBS Journal, 1994, 226, 385-391.	0.2	14
57	Arabinogalactan-Rich Glycoproteins Are Localized on the Cell Surface and in Intravacuolar Multivesicular Bodies. Plant Physiology, 1992, 98, 264-272.	4.8	90
58	Vegetative and Seed-Specific Forms of Tonoplast Intrinsic Protein in the Vacuolar Membrane of <i>Arabidopsis thaliana</i>. Plant Physiology, 1992, 99, 561-570.	4.8	231
59	Isoforms of soybean seed oil body membrane protein 24 kDa oleosin are encoded by closely related cDNAs. Plant Molecular Biology, 1991, 17, 1095-1098.	3.9	44
60	The Purification, Properties, and Localization of an Abundant Legume Seed Lectin Cross-Reactive Material from <i>Spartium junceum</i>. Plant Physiology, 1991, 96, 98-103.	4.8	2
61	Apparent Processing of a Soybean Oil Body Protein Accompanies the Onset of Oil Mobilization. Plant Physiology, 1990, 94, 341-349.	4.8	45
62	An Abundant, Highly Conserved Tonoplast Protein in Seeds. Plant Physiology, 1989, 91, 1006-1013.	4.8	197
63	In vitro Mutated Phytohemagglutinin Genes Expressed in Tobacco Seeds: Role of Glycans in Protein Targeting and Stability. Plant Cell, 1989, 1, 95.	6.6	15
64	A modified storage protein is synthesized, processed, and degraded in the seeds of transgenic plants. Plant Molecular Biology, 1988, 11, 717-729.	3.9	137
65	Correct glycosylation, Golgi-processing, and targeting to protein bodies of the vacuolar protein phytohemagglutinin in transgenic tobacco. Planta, 1988, 175, 170-183.	3.2	88
66	Transport and posttranslational processing of the vacuolar enzyme ?-mannosidase in jack-bean cotyledons. Planta, 1988, 174, 271-282.	3.2	30
67	Bark and Leaf Lectins of Sophora japonica Are Sequestered in Protein-Storage Vacuoles. Plant Physiology, 1988, 86, 1027-1031.	4.8	50
68	Synthesis and protein body deposition of maize 15-kd zein in transgenic tobacco seeds. EMBO Journal, 1987, 6, 3213-3221.	7.8	110
69	Immunogold-localization and synthesis of an oil-body membrane protein in developing soybean seeds. Planta, 1987, 172, 336-345.	3.2	109
70	Accumulation and Subcellular Localization of Î±-Galactosidase-Hemagglutinin in Developing Soybean Cotyledons. Plant Physiology, 1985, 77, 886-890.	4.8	57
71	Immunocytochemical localization of concanavalin A in developing jack-bean cotyledons. Planta, 1984, 161, 97-104.	3.2	50
72	Characteristics and Subcellular Localization of Phospholipase D and Phosphatidic Acid Phosphatase in Mung Bean Cotyledons. Plant Physiology, 1980, 66, 1001-1007.	4.8	52

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73	Rapid Degradation and Limited Synthesis of Phospholipids in the Cotyledons of Mung Bean Seedlings. Plant Physiology, 1979, 64, 38-42.	4.8	24
74	MORPHOLOGICAL VARIABILITY OF MITOCHONDRIAL FINE STRUCTURE IN CULTURED GONYAULAX POLYEDRA (PYRRHOPHYTA). Journal of Phycology, 1979, 15, 333-336.	2.3	4
75	Scanning electron microscopic observations of the flagellar structure of Gymnodinium splendens (Pyrrophyta, Dinophyceae). Phycologia, 1977, 16, 115-118.	1.4	12
76	CACHONINA ILLDEFINA SP. NOV. (DINOPHYCEAE): CHLOROPLAST TUBULES AND DEGENERATION OF THE PYRENOID1. Journal of Phycology, 1976, 12, 198-205.	2.3	17
77	Circadian rhythm of chloroplast ultrastructure in Gonyaulax polyedra, concentric organization around a central cluster of ribosomes. Journal of Ultrastructure Research, 1975, 50, 347-354.	1.1	57
78	Soybean Food and Feed Allergy. Agronomy, 0, , 271-288.	0.2	0