Hari B Krishnan

List of Publications by Citations

142 papers	3,824 citations	38 h-index	55 g-index
145 ext. papers	4,481 ext. citations	4.5 avg, IF	5.57 L-index

#	Paper	IF	Citations
142	R gene-controlled host specificity in the legume-rhizobia symbiosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18735-40	11.5	213
141	All three subunits of soybean beta-conglycinin are potential food allergens. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 938-43	5.7	133
140	Characterization of Nops, nodulation outer proteins, secreted via the type III secretion system of NGR234. *Molecular Plant-Microbe Interactions*, **2003**, 16, 743-51	3.6	114
139	Engineering Soybean for Enhanced Sulfur Amino Acid Content. *Crop Science*, **2005**, 45, 454-461	2.4	112
138	Extracellular proteins involved in soybean cultivar-specific nodulation are associated with pilus-like surface appendages and exported by a type III protein secretion system in Sinorhizobium fredii USDA257. *Molecular Plant-Microbe Interactions*, **2003**, 16, 617-25	3.6	102
137	Nodulation of Sesbania species by Rhizobium (Agrobacterium) strain IRBG74 and other rhizobia. *Environmental Microbiology*, **2009**, 11, 2510-25	5.2	81
136	Metabolomic profiling from leaves and roots of tomato (Solanum lycopersicum L.) plants grown under nitrogen, phosphorus or potassium-deficient condition. *Plant Science*, **2015**, 241, 55-64	5.3	78
135	A rapid and simple procedure for the depletion of abundant storage proteins from legume seeds to advance proteome analysis: a case study using Glycine max. *Proteomics*, **2009**, 9, 3174-88	4.8	75
134	Accumulation of genistein and daidzein, soybean isoflavones implicated in promoting human health, is significantly elevated by irrigation. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 7574-9	5.7	74
133	Structural Relationship among the Rice Glutelin Polypeptides. *Plant Physiology*, **1986**, 81, 748-53	6.6	71
132	Soy and Gut Microbiota: Interaction and Implication for Human Health. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 8695-8709	5.7	70
131	Characterization and localization of rice (Oryza sativa L.) seed globulins. *Plant Science*, **1992**, 81, 1-11	5.3	69
130	Characterization of NopP, a type III secreted effector of Rhizobium sp. strain NGR234. *Journal of Bacteriology*, **2004**, 186, 4774-80	3.5	68
129	Expression of genes from Rahnella aquatilis that are necessary for mineral phosphate solubilization in Escherichia coli. *FEMS Microbiology Letters*, **1998**, 159, 121-7	2.9	65
128	Impact of heat stress during seed development on soybean seed metabolome. *Metabolomics*, **2016**, 12, 1	4.7	64
127	Assembly of the cysteine synthase complex and the regulatory role of protein-protein interactions. *Journal of Biological Chemistry*, **2009**, 284, 10268-75	5.4	62
126	Biochemistry and Molecular Biology of Soybean Seed Storage Proteins. *Journal of New Seeds*, **2001**, 2, 1-25		61

125	Release of flavonoids by the soybean cultivars McCall and peking and their perception as signals by the nitrogen-fixing symbiont sinorhizobium fredii. *Plant Physiology*, **1998**, 117, 599-606	6.6	61
124	Nodulation outer proteins: double-edged swords of symbiotic rhizobia. *Biochemical Journal*, **2015**, 470, 263-74	3.8	60
123	Biocontrol ability of Lysobacter antibioticus HS124 against Phytophthora blight is mediated by the production of 4-hydroxyphenylacetic acid and several lytic enzymes. *Current Microbiology*, **2009**, 59, 608-15	2.4	59
122	Quantitative conversion of phytate to inorganic phosphorus in soybean seeds expressing a bacterial phytase. *Plant Physiology*, **2008**, 146, 468-77	6.6	56
121	A rapid method for depletion of Rubisco from soybean (Glycine max) leaf for proteomic analysis of lower abundance proteins. *Phytochemistry*, **2009**, 70, 1958-64	4	52
120	An efficient extraction method to enhance analysis of low abundant proteins from soybean seed. *Analytical Biochemistry*, **2009**, 394, 259-68	3.1	52
119	Transgenic soybean plants overexpressing O-acetylserine sulfhydrylase accumulate enhanced levels of cysteine and Bowman-Birk protease inhibitor in seeds. *Planta*, **2012**, 235, 13-23	4.7	49
118	NolX of Sinorhizobium fredii USDA257, a type III-secreted protein involved in host range determination, Iis localized in the infection threads of cowpea (Vigna unguiculata [L.] Walp) and soybean (Glycine max [L.] Merr.) nodules. *Journal of Bacteriology*, **2002**, 184, 831-9	3.5	49
117	From sulfur to homoglutathione: thiol metabolism in soybean. *Amino Acids*, **2010**, 39, 963-78	3.5	48
116	NopA is associated with cell surface appendages produced by the type III secretion system of Rhizobium sp. strain NGR234. *Molecular Plant-Microbe Interactions*, **2005**, 18, 499-507	3.6	47
115	Soybean ATP sulfurylase, a homodimeric enzyme involved in sulfur assimilation, is abundantly expressed in roots and induced by cold treatment. *Archives of Biochemistry and Biophysics*, **2006**, 450, 20-9	4.1	46
114	Protein and metabolite composition of xylem sap from field-grown soybeans (Glycine max). *Planta*, **2011**, 233, 921-31	4.7	45
113	Identification, characterization, epitope mapping, and three-dimensional modeling of the alpha-subunit of beta-conglycinin of soybean, a potential allergen for young pigs. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 4014-20	5.7	45
112	Sequence and analysis of the nodABC region of Rhizobium fredii USDA257, a nitrogen-fixing symbiont of soybean and other legumes. *Molecular Plant-Microbe Interactions*, **1991**, 4, 512-20	3.6	45
111	Identification of glycinin and beta-conglycinin subunits that contribute to the increased protein content of high-protein soybean lines. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 1839-45	5.7	44
110	BG-4, a novel anticancer peptide from bitter gourd (Momordica charantia), promotes apoptosis in human colon cancer cells. *Scientific Reports*, **2016**, 6, 33532	4.9	43
109	Expression of an 11 kDa methionine-rich delta-zein in transgenic soybean results in the formation of two types of novel protein bodies in transitional cells situated between the vascular tissue and storage parenchyma cells. *Plant Biotechnology Journal*, **2004**, 2, 199-210	11.6	43
108	Characterization of allergens isolated from the freshwater fish blunt snout bream (Megalobrama amblycephala). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 458-63	5.7	41

107	Transcriptional organization and expression of noIXWBTUV, a locus that regulates cultivar-specific nodulation of soybean by Rhizobium fredii USDA257. *Molecular Microbiology*, **1995**, 17, 923-33	4.1	41
106	Flavonoid inducers of nodulation genes stimulate Rhizobium fredii USDA257 to export proteins into the environment. *Molecular Plant-Microbe Interactions*, **1993**, 6, 107-13	3.6	41
105	Effect of six decades of selective breeding on soybean protein composition and quality: a biochemical and molecular analysis. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 3916-22	5.7	39
104	NopB, a soybean cultivar-specificity protein from Sinorhizobium fredii USDA257, is a type III secreted protein. *Molecular Plant-Microbe Interactions*, **2004**, 17, 1259-68	3.6	37
103	Complete genome sequence of the broad-host-range strain Sinorhizobium fredii USDA257. *Journal of Bacteriology*, **2012**, 194, 4483	3.5	35
102	Structure and mechanism of soybean ATP sulfurylase and the committed step in plant sulfur assimilation. *Journal of Biological Chemistry*, **2014**, 289, 10919-10929	5.4	34
101	Review: The promise and limits for enhancing sulfur-containing amino acid content of soybean seed. *Plant Science*, **2018**, 272, 14-21	5.3	33
100	Inactivation of pqq genes of Enterobacter intermedium 60-2G reduces antifungal activity and induction of systemic resistance. *FEMS Microbiology Letters*, **2008**, 282, 140-6	2.9	32
99	Nitrogen lowers the sulfur amino acid content of soybean (Glycine max [L.] Merr.) by regulating the accumulation of Bowman-Birk protease inhibitor. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 6347-54	5.7	32
98	□N-Oxalyl-l-□diaminopropionic Acid (□ODAP) Content in Lathyrus sativus: The Integration of Nitrogen and Sulfur Metabolism through □Cyanoalanine Synthase. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	31
97	Rhizobium fredii synthesizes an array of lipooligosaccharides, including a novel compound with glucose inserted into the backbone of the molecule. *FEBS Letters*, **1996**, 393, 273-9	3.8	30
96	Proteomic analysis of high protein soybean (Glycine max) accessions demonstrates the contribution of novel glycinin subunits. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2432-9	5.7	29
95	Translocation of NopP by Sinorhizobium fredii USDA257 into Vigna unguiculata root nodules. *Applied and Environmental Microbiology*, **2010**, 76, 3758-61	4.8	29
94	The role of 5'-adenylylsulfate reductase in the sulfur assimilation pathway of soybean: molecular cloning, kinetic characterization, and gene expression. *Phytochemistry*, **2008**, 69, 356-64	4	29
93	Identification of Genistein, an Anticarcinogenic Compound, in the Edible Tubers of the American Groundnut (Apios americana Medikus). *Crop Science*, **1998**, 38, 1052-1056	2.4	29
92	Proteomic Analysis of Pigeonpea (Cajanus cajan) Seeds Reveals the Accumulation of Numerous Stress-Related Proteins. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 4572-4581	5.7	28
91	Interspecific rice hybrid of Oryza sativa x Oryza nivara reveals a significant increase in seed protein content. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 476-82	5.7	28
90	Rhizobium etli USDA9032 engineered to produce a phenazine antibiotic inhibits the growth of fungal pathogens but is impaired in symbiotic performance. *Applied and Environmental Microbiology* , **2007**, 73, 327-30	4.8	28

89	Imbibition of soybean seeds in warm water results in the release of copious amounts of Bowman-Birk protease inhibitor, a putative anticarcinogenic agent. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 3135-43	5.7	27
88	Sulfur assimilation in soybean (Glycine max [L.] Merr.): molecular cloning and characterization of a cytosolic isoform of serine acetyltransferase. *Planta*, **2004**, 218, 417-26	4.7	27
87	RNA sequencing analysis of the broad-host-range strain Sinorhizobium fredii NGR234 identifies a large set of genes linked to quorum sensing-dependent regulation in the background of a traI and ngrI deletion mutant. *Applied and Environmental Microbiology*, **2014**, 80, 5655-71	4.8	26
86	Structure of soybean serine acetyltransferase and formation of the cysteine regulatory complex as a molecular chaperone. *Journal of Biological Chemistry*, **2013**, 288, 36463-72	5.4	25
85	Symbiosomes: temporary moonlighting organelles. *Biochemical Journal*, **2014**, 460, 1-11	3.8	24
84	Sulfur Assimilation in Soybean. *Crop Science*, **2003**, 43, 1819-1827	2.4	24
83	Characterization of a soybean. *Plant Science*, **2001**, 160, 979-986	5.3	24
82	Identification of a new soybean kunitz trypsin inhibitor mutation and its effect on bowman-birk protease inhibitor content in soybean seed. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1352-9	5.7	23
81	Effects of proteome rebalancing and sulfur nutrition on the accumulation of methionine rich Ɛzein in transgenic soybeans. *Frontiers in Plant Science*, **2014**, 5, 633	6.2	23
80	Seed storage protein composition of non-nodulating soybean (Glycine max (L.) Merr.) and its influence on protein quality. *Plant Science*, **2000**, 157, 191-199	5.3	23
79	A new root-nodulating symbiont of the tropical legume Sesbania, Rhizobium sp. SIN-1, is closely related to R. galegae, a species that nodulates temperate legumes. *FEMS Microbiology Letters*, **1995** , 134, 19-25	2.9	22
78	Control of Late Blight (Phytophthora capsici) in Pepper Plant with a Compost Containing Multitude of Chitinase-producing Bacteria. *BioControl*, **2006**, 51, 339-351	2.3	21
77	Compositional changes of selected amino acids, organic acids, and soluble sugars in the xylem sap of N, P, or K-deficient tomato plants. *Journal of Plant Nutrition and Soil Science*, **2015**, 178, 792-797	2.3	20
76	Host range, RFLP, and antigenic relationships betweenRhizobium fredii strains andRhizobium sp. NGR234. *Plant and Soil*, **1994**, 161, 21-29	4.2	20
75	Maize 27 kDa gamma-zein is a potential allergen for early weaned pigs. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 7323-8	5.7	19
74	Biofortification of soybean meal: immunological properties of the 27 kDa Ɛzein. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 1223-8	5.7	18
73	BG-4, a novel bioactive peptide from momordica charantia, inhibits lipopolysaccharide-induced inflammation in THP-1 human macrophages. *Phytomedicine*, **2018**, 42, 226-232	6.5	17
72	Genomewide association study of ionomic traits on diverse soybean populations from germplasm collections. *Plant Direct*, **2018**, 2, e00033	3.3	16

71	Kunitz trypsin inhibitor in addition to Bowman-Birk inhibitor influence stability of lunasin against pepsin-pancreatin hydrolysis. *Food Research International*, **2016**, 90, 205-215	7	16
70	Structural basis for regulation of rhizobial nodulation and symbiosis gene expression by the regulatory protein NolR. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6509-14	11.5	16
69	Threonine-insensitive homoserine dehydrogenase from soybean: genomic organization, kinetic mechanism, and in vivo activity. *Journal of Biological Chemistry*, **2010**, 285, 827-34	5.4	14
68	Inactivation ofnolCConditions Developmental Abnormalities in Nodulation of Peking Soybean byRhizobium frediiUSDA257. *Molecular Plant-Microbe Interactions*, **1992**, 5, 14	3.6	14
67	A nopA deletion mutant of Sinorhizobium fredii USDA257, a soybean symbiont, is impaired in nodulation. *Current Microbiology*, **2014**, 68, 239-46	2.4	13
66	Identification of an abundant 56 kDa protein implicated in food allergy as granule-bound starch synthase. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 5404-9	5.7	13
65	Allelic variation and differential expression of methionine-rich delta-zeins in maize inbred lines B73 and W23a1. *Planta*, **2003**, 217, 66-74	4.7	13
64	Metabolomics Approach To Understand Mechanisms of □N-Oxalyl-l-□□diaminopropionic Acid (□ODAP) Biosynthesis in Grass Pea (Lathyrus sativus L.). *Journal of Agricultural and Food Chemistry*, **2017**, 65, 10206-10213	5.7	12
63	Identification of a plant introduction soybean line with genetic lesions affecting two distinct glycinin subunits and evaluation of impacts on protein content and composition. *Molecular Breeding*, **2013**, 32, 291-298	3.4	11
62	Identification of several gy4 nulls from the USDA soybean germplasm collection provides new genetic resources for the development of high-quality tofu cultivars. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 11320-6	5.7	11
61	Quantitative Proteomic Analysis of Low Linolenic Acid Transgenic Soybean Reveals Perturbations of Fatty Acid Metabolic Pathways. *Proteomics*, **2019**, 19, e1800379	4.8	10
60	Growing Location has a Pronounced Effect on the Accumulation of Cancer Chemopreventive Agent Bowman-Birk Inhibitor in Soybean Seeds. *Crop Science*, **2012**, 52, 1786-1794	2.4	10
59	Transcriptomic Profiling of Lathyrus sativus L. Metabolism of □ODAP, a Neuroexcitatory Amino Acid Associated with Neurodegenerative Lower Limb Paralysis. *Plant Molecular Biology Reporter*, **2018**, 36, 832-843	1.7	10
58	An effective and simple procedure to isolate abundant quantities of biologically active chemopreventive Lunasin Protease Inhibitor Concentrate (LPIC) from soybean. *Food Chemistry*, **2015**, 177, 120-6	8.5	9
57	Identification and Characterization of □Lathyrin, an Abundant Glycoprotein of Grass Pea (Lathyrus sativus L.), as a Potential Allergen. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 8496-8503	5.7	9
56	Assessment of indigenous Nepalese soybean as a potential germplasm resource for improvement of protein in North American cultivars. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 5489-97	5.7	9
55	Characterization of High-Lysine Mutants of Rice. *Crop Science*, **1999**, 39, 825-831	2.4	9
54	Characterization of Seed Storage Proteins of Several Perennial Glycine Species. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 8499-8508	5.7	9

53	Deletion of the SACPD-C Locus Alters the Symbiotic Relationship Between Bradyrhizobium japonicum USDA110 and Soybean, Resulting in Elicitation of Plant Defense Response and Nodulation Defects. *Molecular Plant-Microbe Interactions*, **2016**, 29, 862-877	3.6	9
52	Introgression of leginsulin, a cysteine-rich protein, and high-protein trait from an Asian soybean plant introduction genotype into a North American experimental soybean line. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 2862-9	5.7	8
51	Interactions of gene expression, alternative splicing, and DNA methylation in determining nodule identity. *Plant Journal*, **2020**, 103, 1744-1766	6.9	8
50	Impact of overexpression of cytosolic isoform of O-acetylserine sulfhydrylase on soybean nodulation and nodule metabolome. *Scientific Reports*, **2018**, 8, 2367	4.9	8
49	Immunological Investigation for the Presence of Lunasin, a Chemopreventive Soybean Peptide, in the Seeds of Diverse Plants. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 2901-9	5.7	8
48	Accumulation of Leginsulin, a Hormone-Like Bioactive Peptide, is Drastically Higher in Asian than in North American Soybean Accessions. *Crop Science*, **2012**, 52, 262-271	2.4	8
47	Preparative procedures markedly influence the appearance and structural integrity of protein storage vacuoles in soybean seeds. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 2907-12	5.7	8
46	Citrate synthase mutants of Sinorhizobium fredii USDA257 form ineffective nodules with aberrant ultrastructure. *Applied and Environmental Microbiology*, **2003**, 69, 3561-8	4.8	8
45	Cultivar-specificity genes of the nitrogen-fixing soybean symbiont, Rhizobium fredii USDA257, also regulate nodulation of Erythrina SPP.. *American Journal of Botany*, **1994**, 81, 38-45	2.7	8
44	Transcriptome Profile of Near-Isogenic Soybean Lines for Conglycinin Subunit Deficiency during Seed Maturation. *PLoS ONE*, **2016**, 11, e0159723	3.7	8
43	Biochemical and Anatomical Investigation of (Mill.) McVaugh Nodules Grown under Flooded and Non-Flooded Conditions. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
42	Originating from Different Geographical Regions Reveals Striking Differences in Kunitz and Bowman-Birk Inhibitor Activities. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 8119-8129	5.7	7
41	Disruption of the glycine cleavage system enables Sinorhizobium fredii USDA257 to form nitrogen-fixing nodules on agronomically improved North American soybean cultivars. *Applied and Environmental Microbiology*, **2010**, 76, 4185-93	4.8	7
40	Calcium regulates the production of nodulation outer proteins (Nops) and precludes pili formation by Sinorhizobium fredii USDA257, a soybean symbiont. *FEMS Microbiology Letters*, **2007**, 271, 59-64	2.9	7
39	Cultivar-specificity genes of the nitrogen-fixing soybean symbiont, Rhizobium fredii USDA257, also regulate nodulation of Erythrina SPP. **1994**, 81, 38		7
38	Effect of Heat Stress on Seed Protein Composition and Ultrastructure of Protein Storage Vacuoles in the Cotyledonary Parenchyma Cells of Soybean Genotypes That Are Either Tolerant or Sensitive to Elevated Temperatures. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
37	Distinct cell surface appendages produced by Sinorhizobium fredii USDA257 and S. fredii USDA191, cultivar-specific and nonspecific symbionts of soybean. *Applied and Environmental Microbiology*, **2011**, 77, 6240-8	4.8	6
36	Ca2+-dependent in vitro phosphorylation of soluble proteins from germinating wheat (Triticum turgidum) endosperm. *Physiologia Plantarum*, **1988**, 72, 747-754	4.6	6

35	Proteomic Profiling of Fast Neutron-Induced Soybean Mutant Unveiled Pathways Associated with Increased Seed Protein Content. *Journal of Proteome Research*, **2020**, 19, 3936-3944	5.6	6
34	The Absence of the N-acyl-homoserine-lactone Autoinducer Synthase Genes and Increases the Copy Number of the Symbiotic Plasmid in NGR234. *Frontiers in Microbiology*, **2016**, 7, 1858	5.7	6
33	Molecular aspects of soybean cultivar-specific nodulation by Sinorhizobium fredii USDA257. *Indian Journal of Experimental Biology*, **2003**, 41, 1114-23		6
32	Whole-Genome Resequencing Identifies the Molecular Genetic Cause for the Absence of a Gy5 Glycinin Protein in Soybean PI 603408. *G3: Genes, Genomes, Genetics*, **2017**, 7, 2345-2352	3.2	5
31	Development and Characterization of a Soybean Experimental Line Lacking the Subunit of Conglycinin and G1, G2, and G4 Glycinin. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 432-439	5.7	5
30	Evaluation and Development of Low-Phytate Crops. *Agronomy*, **2015**, 177-200	0.8	5
29	A four-nucleotide base-pair deletion in the coding region of the Bowman-Birk protease inhibitor gene prevents its accumulation in the seeds of Glycine microphylla PI440956. *Planta*, **2003**, 217, 523-7	4.7	5
28	Overexpression of ATP sulfurylase improves the sulfur amino acid content, enhances the accumulation of Bowman-Birk protease inhibitor and suppresses the accumulation of the subunit of conglycinin in soybean seeds. *Scientific Reports*, **2020**, 10, 14989	4.9	5
27	Impact of co-expression of maize 11 and 18 kDa zeins and 27 kDa zein in transgenic soybeans on protein body structure and sulfur amino acid content. *Plant Science*, **2019**, 280, 340-347	5.3	5
26	Functional nodFE genes are present in Sinorhizobium sp. strain MUS10, a symbiont of the tropical legume Sesbania rostrata. *Applied and Environmental Microbiology*, **2008**, 74, 2921-3	4.8	4
25	Identification of a functional 2-keto-myo-inositol dehydratase gene of Sinorhizobium fredii USDA191 required for myo-inositol utilization. *Bioscience, Biotechnology and Biochemistry*, **2006**, 70, 2957-64	2.1	4
24	Making Rice a Perfect Food. *The Journal of Crop Improvement: Innovations in Practiceory and Research*, **2002**, 5, 93-130		4
23	Classical Soybean () Symbionts, USDA191 and USDA110, Reveal Contrasting Symbiotic Phenotype on Pigeon Pea ((L.) Millsp). *International Journal of Molecular Sciences*, **2019**, 20,	6.3	3
22	Soybean Mutants Lacking Abundant Seed Storage Proteins Are Impaired in Mobilization of Storage Reserves and Germination. *ACS Omega*, **2020**, 5, 8065-8075	3.9	3
21	The Lack of Beta-amylase Activity in Soybean Cultivar Altona sp 1 is Associated with a 1.2 kb Deletion in the 5? Region of Beta-amylase I Gene. *Crop Science*, **2010**, 50, 1942-1949	2.4	3
20	Regulatory Protein-Protein Interactions in Primary Metabolism: The Case of the Cysteine Synthase Complex **2008**, 97-109		3
19	Y4xP, an open reading frame located in a type III protein secretion system locus of Sinorhizobium fredii USDA257 and USDA191, encodes cysteine synthase. *Molecular Plant-Microbe Interactions*, **2006**, 19, 635-43	3.6	3
18	Purification, partial characterization, and subcellular localization of a 38 kilodalton, calcium-regulated protein of Rhizobium fredii USDA208. *Archives of Microbiology*, **1993**, 159, 250-6	3	3

17	Development of soybean experimental lines with enhanced protein and sulfur amino acid content. *Plant Science*, **2021**, 308, 110912	5.3	3
16	Utilization of tofu processing wastewater as a source of the bioactive peptide lunasin. *Food Chemistry*, **2021**, 362, 130220	8.5	3
15	BG-4 from Bitter Gourd () Differentially Affects Inflammation In Vitro and In Vivo. *Antioxidants*, **2019**, 8,	7.1	2
14	Improving the Sulfur-Containing Amino Acids of Soybean to Enhance its Nutritional Value in Animal Feed. *Agronomy*, **2015**, 235-249	0.8	2
13	Protein Body Formation and Immunocytochemical Localization of Globulins and Glutelins in Developing Rice (Oryza sativa L.) Embryos. *Crop Science*, **1997**, 37, 932-939	2.4	2
12	Ineffective nodulation ofSesbania macrocarpabySinorhizobium melilotistrain RCR2011. *FEMS Microbiology Letters*, **1998**, 165, 207-214	2.9	2
11	Rhizobium-legume symbioses: molecular signals elaborated by rhizobia that are important for nodulati **2007**, 57-104		2
10	The protective effect of soybean phytochemicals on androgen responsive human prostate cancer cells LNCaP is likely mediated through modulation of hormone/cytokine-dependent pathways. *Functional Foods in Health and Disease*, **2011**, 1, 457	2.5	2
9	Proteomic Comparison of Three Extraction Methods Reveals the Abundance of Protease Inhibitors in the Seeds of Grass Pea, a Unique Orphan Legume. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 10296-10305	5.7	1
8	Breeding of DND358A new soybean cultivar for processing soy protein isolate with a hypocholesterolemic effect similar to that of fenofibrate. *Journal of Functional Foods*, **2022**, 90, 104979	5.1	1
7	Genome-Wide Association Study of Ionomic Traits on Diverse Soybean Populations from Germplasm Collections		1
6	Title: Hypermethylation of miRNA Genes During Nodule Development. *Frontiers in Molecular Biosciences*, **2021**, 8, 616623	5.6	0
5	Protein profiling of fast neutron soybean mutant seeds reveals differential accumulation of seed and iron storage proteins.. *Phytochemistry*, **2022**, 113214	4	0
4	Nodulation Genes and Type III Secretion Systems in Rhizobia. *Agronomy*, **2015**, 65-94	0.8	
3	Modification of soybean seed composition through biotechnology to enhance their value in animal feeds. *Journal of Biotechnology*, **2008**, 136, S215	3.7	
2	, a potential plant-based protein resource: Seed protein composition and immunohistochemical localization of trypsin inhibitors.. *Food Chemistry: X*, **2022**, 13, 100253	4.7	
1	Quantitative proteomic analyses reveal the dynamics of protein and amino acid accumulation during soybean seed development. *Proteomics*, **2021**, e2100143	4.8	