Ravindra N Chibbar

List of Publications by Year
in descending order

109 papers	3,231 citations	136950 32 h-index	168389 53 g-index
113 all docs	113 docs citations	113 times ranked	3139 citing authors

#	Article	IF	Citations
1	Nutritional Composition and In Vitro Starch Digestibility of Crackers Supplemented with Faba Bean Whole Flour, Starch Concentrate, Protein Concentrate and Protein Isolate. Foods, 2022, 11, 645.	4.3	10
2	Association mapping of autumn-seeded rye (Secale cereale L.) reveals genetic linkages between genes controlling winter hardiness and plant development. Scientific Reports, 2022, 12, 5793.	3.3	3
3	Faba bean meal, starch or protein fortification of durum wheat pasta differentially influence noodle composition, starch structure and in vitro digestibility. Food Chemistry, 2021, 349, 129167.	8.2	19
4	Sequential expression of raffinose synthase and stachyose synthase corresponds to successive accumulation of raffinose, stachyose and verbascose in developing seeds of Lens culinaris Medik.. Journal of Plant Physiology, 2021, 265, 153494.	3.5	8
5	The Relationships between Plant Developmental Traits and Winter Field Survival in Rye (Secale cereale) Tj ETQq1 1 0.784314 rgBT /Over	3.5	4
6	Utilization of wheat spike culture to assess Fusarium head blight disease progression and mycotoxin accumulation. Canadian Journal of Plant Pathology, 2020, 42, 62-71.	1.4	3
7	Fruit quality of Japanese, Kuril and Russian blue honeysuckle (Lonicera caerulea L.) germplasm compared to blueberry, raspberry and strawberry. Euphytica, 2020, 216, 1.	1.2	5
8	Brassinosteroid receptor mutation influences starch granule size distribution in barley grains. Plant Physiology and Biochemistry, 2020, 154, 369-378.	5.8	7
9	In Vitro Wheat Immature Spike Culture Screening Identified Fusarium Head Blight Resistance in Wheat Spike Cultured Derived Variants and in the Progeny of Their Crosses with an Elite Cultivar. Plant Pathology Journal, 2020, 36, 558-569.	1.7	1
10	Co-localization of genomic regions associated with seed morphology and composition in a desi chickpea (Cicer arietinum L.) population varying in seed protein concentration. Theoretical and Applied Genetics, 2019, 132, 1263-1281.	3.6	15
11	Preferential accumulation of glycosylated cyanidins in winter-hardy rye (Secale cereale L.) genotypes during cold acclimation. Environmental and Experimental Botany, 2019, 164, 203-212.	4.2	12
12	Spike culture derived wheat (Triticum aestivum L.) variants exhibit improved resistance to multiple chemotypes of Fusarium graminearum. PLoS ONE, 2019, 14, e0226695.	2.5	3
13	Faba bean protein flours added to pasta reduce post-ingestion glycaemia, and increase satiety, protein content and quality. Food and Function, 2019, 10, 7476-7488.	4.6	19
14	Starch granule size and amylopectin chain length influence starch in vitro enzymatic digestibility in selected rice mutants with similar amylose concentration. Journal of Food Science and Technology, 2019, 56, 391-400.	2.8	32
15	Blue honeysuckle (Lonicera caerulea L.) vegetative growth cessation and leaf drop phenological adaptation to a temperate climate. Genetic Resources and Crop Evolution, 2018, 65, 1471-1484.	1.6	6
16	Spring phenological adaptation of blue honeysuckle (Lonicera caerulea L.) foundation germplasm in a temperate climate. Canadian Journal of Plant Science, 2018, 98, 569-581.	0.9	7
17	Single Nucleotide Polymorphisms in B-Genome Specific UDP-Glucosyl Transferases Associated with Fusarium Head Blight Resistance and Reduced Deoxynivalenol Accumulation in Wheat Grain. Phytopathology, 2018, 108, 124-132.	2.2	8
18	In vitro assessment of the starch digestibility of western Canadian wheat market classes and cultivars. Canadian Journal of Animal Science, 2018, 98, 463-476.	1.5	10

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19	Grain constituents and starch characteristics influencing inÂvitro enzymatic starch hydrolysis in Hungarian triticale genotypes developed for food consumption. Cereal Chemistry, 2018, 95, 861-871.	2.2	5
20	Agronomic potential of fruit size and yield traits in blue honeysuckle (Lonicera caerulea L.) foundation germplasm. Euphytica, 2018, 214, 1.	1.2	4
21	Genotype, environment and G Ã— E interaction influence (1,3;1,4)â€Î²â€<scp>d</scp>â€glucan fine structure in barley (<i>Hordeum vulgare</i> L.). Journal of the Science of Food and Agriculture, 2017, 97, 743-752.	3.5	6
22	Spring phenological adaptation of improved blue honeysuckle (Lonicera caerulea L.) germplasm to a temperate climate. Euphytica, 2017, 213, 1.	1.2	9
23	Genotype, environment and their interaction influence seed quality traits in chickpea (Cicer arietinum) Tj ETQq1 1 0.784314 rgBT /Over	3.9	14
24	EcoTILLING by sequencing reveals polymorphisms in genes encoding starch synthases that are associated with low glycemic response in rice. BMC Plant Biology, 2017, 17, 13.	3.6	26
25	Validation and Applicability of Single Kernel-Based Cut Grain Dip Method for Amylose Determination in Rice. Food Analytical Methods, 2017, 10, 442-448.	2.6	11
26	Amylopectin small chain glucans form structure fingerprint that determines botanical origin of starch. Carbohydrate Polymers, 2017, 158, 112-123.	10.2	9
27	Variation in Seedâ€Quality Traits of Chickpea and Their Correlation to Raffinose Family Oligosaccharides Concentrations. Crop Science, 2017, 57, 1594-1602.	1.8	3
28	Differential expression of two galactinol synthase isoforms LcGolS1 and LcGolS2 in developing lentil (Lens culinaris Medik. cv CDC Redberry) seeds. Plant Physiology and Biochemistry, 2016, 108, 422-433.	5.8	10
29	Synchrotron based high throughput screening method for mineral analysis in cereal and pulse grains meal. Microchemical Journal, 2016, 126, 509-514.	4.5	2
30	Galactinol synthase enzyme activity influences raffinose family oligosaccharides (RFO) accumulation in developing chickpea (Cicer arietinum L.) seeds. Phytochemistry, 2016, 125, 88-98.	2.9	44
31	Light-quality and temperature-dependent<i>CBF14</i>gene expression modulates freezing tolerance in cereals. Journal of Experimental Botany, 2016, 67, 1285-1295.	4.8	37
32	TILLING and EcoTILLING for Discovery of Induced and Natural Variations in Sorghum Genome. Compendium of Plant Genomes, 2016, , 257-267.	0.5	2
33	Genetic Gains in Agronomic and Selected Endâ€Use Quality Traits over a Century of Plant Breeding of Canada Western Red Spring Wheat. Cereal Chemistry, 2015, 92, 537-543.	2.2	20
34	Differences in Starch Granule Composition and Structure Influence In Vitro Enzymatic Hydrolysis of Grain Meal and Extracted Starch in Two Classes of Canadian Wheat (<i>Triticum aestivum</i> L.). Cereal Chemistry, 2014, 91, 233-239.	2.2	9
35	Development of Barley (<i>Hordeum vulgare</i> L.) Lines with Altered Starch Granule Size Distribution. Journal of Agricultural and Food Chemistry, 2014, 62, 2289-2296.	5.2	19
36	Wheat genome specific granule-bound starch synthase I differentially influence grain starch synthesis. Carbohydrate Polymers, 2014, 114, 87-94.	10.2	14

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37	A reliable and rapid method for soluble sugars and RFO analysis in chickpea using HPAECâ€“PAD and its comparison with HPLCâ€“RI. Food Chemistry, 2014, 154, 127-133.	8.2	66
38	Genome-Specific Granule-Bound Starch Synthase I (GBSSI) Influences Starch Biochemical and Functional Characteristics in Near-Isogenic Wheat (Triticum aestivum L.) Lines. Journal of Agricultural and Food Chemistry, 2013, 61, 12129-12138.	5.2	21
39	Characterisation of two wheat enolase <scp>cDNA</scp> showing distinct patterns of expression in leaf and crown tissues of plants exposed to low temperature. Annals of Applied Biology, 2013, 162, 271-283.	2.5	6
40	Genotype and Growing Environment Interaction Shows a Positive Correlation between Substrates of Raffinose Family Oligosaccharides (RFO) Biosynthesis and Their Accumulation in Chickpea (Cicer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	5.2	22
41	An Assessment of Raffinose Family Oligosaccharides and Sucrose Concentration in Genus <i>Lens</i>. Crop Science, 2012, 52, 1713-1720.	1.8	17
42	Crop improvement for enhanced grain quality and utilization. Quality Assurance and Safety of Crops and Foods, 2012, 4, 116-118.	3.4	2
43	Polymorphism in the Barley Granule Bound Starch Synthase 1 (<i>Gbss1</i>) Gene Associated with Grain Starch Variant Amylose Concentration. Journal of Agricultural and Food Chemistry, 2012, 60, 10082-10092.	5.2	26
44	Genetic markers for CslF6 gene associated with (1,3;1,4)-Î²-glucan concentration in barley grain. Journal of Cereal Science, 2012, 56, 332-339.	3.7	15
45	<i>In vitro</i>â€cultured wheat spikes provide a simplified alternative for studies of cadmium uptake in developing grains. Journal of the Science of Food and Agriculture, 2012, 92, 1740-1747.	3.5	11
46	Effect of genotype and environment on the concentrations of starch and protein in, and the physicochemical properties of starch from, field pea and fababean. Journal of the Science of Food and Agriculture, 2012, 92, 141-150.	3.5	61
47	Barley Grain Constituents, Starch Composition, and Structure Affect Starch in Vitro Enzymatic Hydrolysis. Journal of Agricultural and Food Chemistry, 2011, 59, 4743-4754.	5.2	132
48	Composition and correlation between major seed constituents in selected lentil (<i>Lens) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (	0.9	50
49	Contrasting cDNA-AFLP profiles between crown and leaf tissues of cold-acclimated wheat plants indicate differing regulatory circuitries for low temperature tolerance. Plant Molecular Biology, 2011, 75, 379-398.	3.9	19
50	Development of microsatellite markers in canary seed (Phalaris canariensis L.). Molecular Breeding, 2011, 28, 611-621.	2.1	8
51	Genome-wide gene expression analysis supports a developmental model of low temperature tolerance gene regulation in wheat (Triticum aestivum L.). BMC Genomics, 2011, 12, 299.	2.8	98
52	Influence of environment on seed soluble carbohydrates in selected lentil cultivars. Journal of Food Composition and Analysis, 2011, 24, 596-602.	3.9	41
53	Identification of genomic regions associated with seed dormancy in white-grained wheat. Euphytica, 2010, 174, 391-408.	1.2	44
54	Application of aerosolâ€spray deposition for determination of fine structure of barley starch using atomic force microscopy. Starch/Staerke, 2010, 62, 676-685.	2.1	9

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55	Functional Genomics For Crop Improvement. , 2010, , 63-95.		1
56	REVIEW: Molecular Diversity in Pulse Seed Starch and Complex Carbohydrates and Its Role in Human Nutrition and Health. Cereal Chemistry, 2010, 87, 342-352.	2.2	80
57	Selected Carbohydrate Metabolism Genes Show Coincident Expression Peaks in Grains of In Vitro-Cultured Immature Spikes of Wheat (Triticum aestivum L.). Journal of Agricultural and Food Chemistry, 2010, 58, 4193-4201.	5.2	14
58	Gene Transfer Methods. , 2010, , 57-83.		0
59	Analysis of starch swelling power in Australian breeding lines of hexaploid wheat (Triticum aestivum) Tj ETQq1 1 0.784314 rgBT /Overlo	5.1	6
60	Identification of genomic regions determining the phenological development leading to floral transition in wheat (Triticum aestivum L.). Journal of Experimental Botany, 2009, 60, 3575-3585.	4.8	18
61	Quantitative expression analysis of selected low temperature-induced genes in autumn-seeded wheat (Triticum aestivum L.) reflects changes in soil temperature. Environmental and Experimental Botany, 2009, 66, 46-53.	4.2	14
62	Genotype and growing environment influence chickpea (<i>Cicer arietinum</i> L.) seed composition. Journal of the Science of Food and Agriculture, 2009, 89, 2052-2063.	3.5	49
63	Phenolic acid composition and antioxidant capacity of acid and alkali hydrolysed wheat bran fractions. Food Chemistry, 2009, 116, 947-954.	8.2	177
64	In vitro pullulanase activity of wheat (Triticum aestivum L.) limit-dextrinase type starch debranching enzyme is modulated by redox conditions. Journal of Cereal Science, 2008, 47, 302-309.	3.7	17
65	Identification of quantitative trait loci for Î²-glucan concentration in barley grain. Journal of Cereal Science, 2008, 48, 647-655.	3.7	41
66	Quantitative expression analysis of selected COR genes reveals their differential expression in leaf and crown tissues of wheat (Triticum aestivum L.) during an extended low temperature acclimation regimen. Journal of Experimental Botany, 2008, 59, 2393-2402.	4.8	79
67	Phenolic Compounds Contribute to Dark Bran Pigmentation in Hard White Wheat. Journal of Agricultural and Food Chemistry, 2008, 56, 1644-1653.	5.2	36
68	Phenolic Content and Antioxidant Properties of Bran in 51 Wheat Cultivars. Cereal Chemistry, 2008, 85, 544-549.	2.2	93
69	Comparison of Different Methods for Phenotyping Preharvest Sprouting in Whiteâ€Grained Wheat. Cereal Chemistry, 2008, 85, 238-242.	2.2	5
70	In planta novel starch synthesis. , 2007, , 181-208.		6
71	Plant Breeding: Antisense ODN Inhibition in in vitro spike cultures as a powerful Diagnostic Tool in Studies on Cereal Grain Development. Progress in Botany Fortschritte Der Botanik, 2007, , 179-190.	0.3	6
72	Evaluation of the Enhanced Regeneration System for in vitro regeneration in barley. Canadian Journal of Plant Science, 2006, 86, 63-69.	0.9	2

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73	In vitro regeneration of cereals based on multiple shoot induction from mature embryos in response to thidiazuron. Plant Cell, Tissue and Organ Culture, 2006, 85, 63-73.	2.3	41
74	Identification of quantitative trait loci and associated candidate genes for low-temperature tolerance in cold-hardy winter wheat. Functional and Integrative Genomics, 2006, 7, 53-68.	3.5	143
75	Circadian Clock Regulation of Starch Metabolism Establishes GBSSI as a Major Contributor to Amylopectin Synthesis in Chlamydomonas reinhardtii Â. Plant Physiology, 2006, 142, 305-317.	4.8	133
76	Construction and Characterization of a BAC Library of a Coldâ€Tolerant Hexaploid Wheat Cultivar. Crop Science, 2005, 45, 1571-1577.	1.8	9
77	Wheat (Triticum aestivum L.) somatic embryogenesis from isolated scutellum: Days post anthesis, days of spike storage, and sucrose concentration affect efficiency. In Vitro Cellular and Developmental Biology - Plant, 2003, 39, 20-23.	2.1	10
78	Recovery and characterization of transgenic plants from two spring wheat cultivars with low embryogenesis efficiencies by the bombardment of isolated scutella. In Vitro Cellular and Developmental Biology - Plant, 2003, 39, 12-19.	2.1	9
79	Title is missing!. Plant Cell, Tissue and Organ Culture, 2003, 73, 57-64.	2.3	48
80	Synthesis of Novel Starches in Planta: Opportunities and Challenges. Starch/Staerke, 2003, 55, 107-120.	2.1	74
81	Structural organization of the barley D-hordein locus in comparison with its orthologous regions of wheat genomes. Genome, 2003, 46, 1084-1097.	2.0	61
82	Characterization of a cDNA encoding a type I starch branching enzyme produced in developing wheat (Triticum aestivum L.)kernels. Journal of Plant Physiology, 2001, 158, 91-100.	3.5	9
83	Isolation, characterization and expression analysis of starch synthase I from wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.6	25
84	Genetic enrichment of cereal crops via alien gene transfer: New challenges. Plant Cell, Tissue and Organ Culture, 2001, 64, 159-183.	2.3	78
85	Frequent Absence of GBSS 1 B Isoprotein in Endosperm Starch of Canadian Wheat Cultivars. Starch/Staerke, 2000, 52, 349-352.	2.1	11
86	Title is missing!. Plant Cell, Tissue and Organ Culture, 2000, 60, 69-73.	2.3	25
87	Isolation of a cDNA Encoding a Granule-Bound 152-Kilodalton Starch-Branching Enzyme in Wheat. Plant Physiology, 2000, 124, 253-264.	4.8	48
88	Isolation, characterization, and expression analysis of starch synthase IIa cDNA from wheat (<i>Triticum aestivum</i>L.). Genome, 2000, 43, 768-775.	2.0	19
89	Starch-Branching Enzymes Preferentially Associated with A-Type Starch Granules in Wheat Endosperm. Plant Physiology, 2000, 124, 265-272.	4.8	105
90	Isolation, characterization, and expression analysis of starch synthase IIa cDNA from wheat (<i>Triticum aestivum</i> L.). Genome, 2000, 43, 768-775.	2.0	11

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91	A starch-branching enzyme gene in wheat produces alternatively spliced transcripts. Plant Molecular Biology, 1999, 40, 1019-1030.	3.9	31
92	Chromosome-mediated and direct gene transfers in wheat. Genome, 1999, 42, 570-583.	2.0	81
93	Expression and Regulation of Transgenes for Selection of Transformants and Modification of Traits in Cereals. Advances in Cellular and Molecular Biology of Plants, 1999, , 83-131.	0.2	4
94	Isolation, characterization and expression analysis of a starch branching enzyme II cDNA from wheat. Plant Science, 1997, 122, 153-163.	3.6	40
95	Title is missing!. Transgenic Research, 1997, 6, 123-131.	2.4	5
96	Somatic embryogenesis from isolated scutella of wheat: effects of physical, physiological and genetic factors. Plant Science, 1996, 121, 75-84.	3.6	37
97	Molecular cloning and expression analysis of peroxidase genes from wheat. Plant Molecular Biology, 1995, 29, 647-662.	3.9	41
98	Self-fertile transgenic wheat plants regenerated from isolated scutellar tissues following microprojectile bombardment with two distinct gene constructs+. Plant Journal, 1994, 5, 285-297.	5.7	235
99	The effect of different promoter-sequences on transient expression of gus reporter gene in cultured barley (Hordeum vulgare L.) cells. Plant Cell Reports, 1993, 12, 506-9.	5.6	39
100	Effect of low temperature stress on the expression of sucrose synthetase in spring and winter wheat plants. Development of a monoclonal antibody against wheat germ sucrose synthetase. Biochemistry and Cell Biology, 1991, 69, 36-41.	2.0	11
101	Novel Approach to the Ligation of Single-Stranded DNA Fragments by T₄DNA Ligaseâ€"DNA Mobile Multiple-Restriction Fragments: â€œUNI-LINKERSâ€•for Cloning of Genes. Nucleosides & Nucleotides, 1989, 8, 1427-1440.	0.5	2
102	Enhancing the sensitivity of DNA detection and recovery from agarose gels. Electrophoresis, 1988, 9, 213-216.	2.4	1
103	Ca2+ and peroxidase derived from cultured peanut cells. Physiologia Plantarum, 1987, 70, 99-102.	5.2	32
104	Site of haem synthesis in cultured peanut cells. Phytochemistry, 1986, 25, 585-587.	2.9	6
105	Characterization of Peroxidase in Plant Cells. Plant Physiology, 1984, 75, 956-958.	4.8	53
106	Immunoaffinity Studies on Cationic Peanut Peroxidase Fraction. Journal of Plant Physiology, 1984, 116, 365-373.	3.5	8
107	Glutamic acid is the haem precursor for peroxidase synthesized by peanut cells in suspension culture. Phytochemistry, 1983, 22, 1721-1723.	2.9	25
108	Utilization of Microsatellite Markers to Assess Hybridity and Genetic Identity of Canary seed (Phalaris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	0

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109	Effects of clipping frequency on tiller development of crested wheatgrass and hybrid bromegrass at vegetative and reproductive stages. Canadian Journal of Plant Science, 0, , .	0.9	0