Sang Un Park

List of Publications by Citations

230 papers	3,757 citations	33 h-index	44 g-index
246 ext. papers	4,687 ext. citations	3.8 avg, IF	5.6 L-index

#	Paper	IF	Citations
230	Differential expression of flavonoid biosynthesis genes and accumulation of phenolic compounds in common buckwheat (Fagopyrum esculentum). *Journal of Agricultural and Food Chemistry*, **2010**, 58, 12176-81	5.7	83
229	Anthocyanin accumulation and expression of anthocyanin biosynthetic genes in radish (Raphanus sativus). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6034-9	5.7	72
228	Molecular cloning and characterization of phenylalanine ammonia-lyase, cinnamate 4-hydroxylase and genes involved in flavone biosynthesis in Scutellaria baicalensis. *Bioresource Technology*, **2010**, 101, 9715-22	11	72
227	Effect of Different Agrobacterium rhizogenes Strains on Hairy Root Induction and Phenylpropanoid Biosynthesis in Tartary Buckwheat (Fagopyrum tataricum Gaertn). *Frontiers in Microbiology*, **2016**, 7, 318	5.7	59
226	Effects of light-emitting diodes on expression of phenylpropanoid biosynthetic genes and accumulation of phenylpropanoids in Fagopyrum tataricum sprouts. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4839-45	5.7	56
225	Metabolic profiling of glucosinolates, anthocyanins, carotenoids, and other secondary metabolites in kohlrabi (Brassica oleracea var. gongylodes). *Journal of Agricultural and Food Chemistry*, **2012**, 60, 8111-6	5.7	56
224	Effects of white, blue, and red light-emitting diodes on carotenoid biosynthetic gene expression levels and carotenoid accumulation in sprouts of tartary buckwheat (Fagopyrum tataricum Gaertn.). *Journal of Agricultural and Food Chemistry*, **2013**, 61, 12356-61	5.7	56
223	An up-to-date review of rutin and its biological and pharmacological activities. *EXCLI Journal*, **2015**, 14, 59-63	2.4	56
222	Overexpression of a tartary buckwheat R2R3-MYB transcription factor gene, FtMYB9, enhances tolerance to drought and salt stresses in transgenic Arabidopsis. *Journal of Plant Physiology*, **2017**, 214, 81-90	3.6	51
221	Metabolomics analysis and biosynthesis of rosmarinic acid in Agastache rugosa Kuntze treated with methyl jasmonate. *PLoS ONE*, **2013**, 8, e64199	3.7	51
220	Phenylalanine and LED lights enhance phenolic compound production in Tartary buckwheat sprouts. *Food Chemistry*, **2015**, 177, 204-13	8.5	50
219	MYB transcription factors regulate glucosinolate biosynthesis in different organs of Chinese cabbage (Brassica rapa ssp. pekinensis). *Molecules*, **2013**, 18, 8682-95	4.8	50
218	Variation of glucosinolates in 62 varieties of Chinese cabbage (Brassica rapa L. ssp. pekinensis) and their antioxidant activity. *LWT - Food Science and Technology*, **2014**, 58, 93-101	5.4	49
217	Enhanced triterpene accumulation in Panax ginseng hairy roots overexpressing mevalonate-5-pyrophosphate decarboxylase and farnesyl pyrophosphate synthase. *ACS Synthetic Biology*, **2014**, 3, 773-9	5.7	49
216	Accumulation of phenylpropanoids and correlated gene expression during the development of tartary buckwheat sprouts. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 5629-35	5.7	47
215	Accumulation of tilianin and rosmarinic acid and expression of phenylpropanoid biosynthetic genes in Agastache rugosa. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 5945-51	5.7	47
214	Enhanced accumulation of phytosterol and triterpene in hairy root cultures of Platycodon grandiflorum by overexpression of Panax ginseng 3-hydroxy-3-methylglutaryl-coenzyme A reductase. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 1928-34	5.7	46

213	Metabolic Profiling and Antioxidant Assay of Metabolites from Three Radish Cultivars (Raphanus sativus). *Molecules*, **2016**, 21, 157	4.8	45
212	Differential expression of anthocyanin biosynthetic genes and anthocyanin accumulation in tartary buckwheat cultivars SHokkai t8Sand SHokkai t10S *Journal of Agricultural and Food Chemistry*, **2011**, 59, 2356-61	5.7	44
211	Transcriptome analysis and metabolic profiling of green and red kale (Brassica oleracea var. acephala) seedlings. *Food Chemistry*, **2018**, 241, 7-13	8.5	43
210	Carotenoid content and expression of phytoene synthase and phytoene desaturase genes in bitter melon (Momordica charantia). *Food Chemistry*, **2011**, 126, 1686-92	8.5	43
209	Ginsenoside content of berries and roots of three typical Korean ginseng (Panax ginseng) cultivars. *Natural Product Communications*, **2009**, 4, 903-6	0.9	43
208	Metabolite profiling approach reveals the interface of primary and secondary metabolism in colored cauliflowers (Brassica oleracea L. ssp. botrytis). *Journal of Agricultural and Food Chemistry*, **2013**, 61, 6999-7007	5.7	42
207	Anthocyanin and Carotenoid Contents in Different Cultivars of Chrysanthemum (Dendranthema grandiflorum Ramat.) Flower. *Molecules*, **2015**, 20, 11090-102	4.8	41
206	Production of phenolic compounds in hairy root culture of tartary buckwheat (Fagopyrum tataricum Gaertn). *Journal of Crop Science and Biotechnology*, **2009**, 12, 53-57	1.2	41
205	Growth and rutin production in hairy root cultures of buckwheat (Fagopyrum esculentum M.). *Preparative Biochemistry and Biotechnology*, **2007**, 37, 239-46	2.4	41
204	Rosmarinic acid production in hairy root cultures of Agastache rugosa Kuntze. *World Journal of Microbiology and Biotechnology*, **2008**, 24, 969-972	4.4	39
203	Identification of phenylpropanoid biosynthetic genes and phenylpropanoid accumulation by transcriptome analysis of Lycium chinense. *BMC Genomics*, **2013**, 14, 802	4.5	38
202	Accumulation of anthocyanin and associated gene expression in radish sprouts exposed to light and methyl jasmonate. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 4127-32	5.7	38
201	Characterization of two tartary buckwheat R2R3-MYB transcription factors and their regulation of proanthocyanidin biosynthesis. *Physiologia Plantarum*, **2014**, 152, 431-40	4.6	37
200	Enhancement of flavone levels through overexpression of chalcone isomerase in hairy root cultures of Scutellaria baicalensis. *Functional and Integrative Genomics*, **2011**, 11, 491-6	3.8	37
199	Treasure from garden: Bioactive compounds of buckwheat. *Food Chemistry*, **2021**, 335, 127653	8.5	37
198	An efficient protocol for genetic transformation of watercress (Nasturtium officinale) using Agrobacterium rhizogenes. *Molecular Biology Reports*, **2011**, 38, 4947-53	2.8	34
197	Metabolomic analysis and phenylpropanoid biosynthesis in hairy root culture of tartary buckwheat cultivars. *PLoS ONE*, **2013**, 8, e65349	3.7	33
196	Differential stress-response expression of two flavonol synthase genes and accumulation of flavonols in tartary buckwheat. *Journal of Plant Physiology*, **2013**, 170, 1630-6	3.6	32

195	Herbicidal activity of formulated sorgoleone, a natural product of sorghum root exudate. *Pest Management Science*, **2014**, 70, 252-7	4.6	32
194	Yeast Extract and Silver Nitrate Induce the Expression of Phenylpropanoid Biosynthetic Genes and Induce the Accumulation of Rosmarinic Acid in Agastache rugosa Cell Culture. *Molecules*, **2016**, 21, 426	4.8	32
193	Metabolic Profiling in Chinese Cabbage (Brassica rapa L. subsp. pekinensis) Cultivars Reveals that Glucosinolate Content Is Correlated with Carotenoid Content. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 4426-34	5.7	32
192	Accumulation of Rutin and Betulinic Acid and Expression of Phenylpropanoid and Triterpenoid Biosynthetic Genes in Mulberry (Morus alba L.). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 8622-30	5.7	31
191	Effects of Light-Emitting Diodes on the Accumulation of Glucosinolates and Phenolic Compounds in Sprouting Canola (L.). *Foods*, **2019**, 8,	4.9	30
190	In Vitro Antioxidant and Antimicrobial Properties of Flower, Leaf, and Stem Extracts of Korean Mint. *Antioxidants*, **2019**, 8,	7.1	30
189	Accumulation of Phenylpropanoids by White, Blue, and Red Light Irradiation and Their Organ-Specific Distribution in Chinese Cabbage (Brassica rapa ssp. pekinensis). *Journal of Agricultural and Food Chemistry*, **2015**, 63, 6772-8	5.7	29
188	Comparative analysis of flavonoids and polar metabolite profiling of Tanno-original and Tanno-high rutin buckwheat. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 2701-8	5.7	29
187	De novo transcriptome analysis and glucosinolate profiling in watercress (Nasturtium officinale R. Br.). *BMC Genomics*, **2017**, 18, 401	4.5	29
186	Enhancement of anti-inflammatory activity of Aloe vera adventitious root extracts through the alteration of primary and secondary metabolites via salicylic acid elicitation. *PLoS ONE*, **2013**, 8, e82479	3.7	29
185	Identification, isolation and expression analysis of eight stress-related R2R3-MYB genes in tartary buckwheat (Fagopyrum tataricum). *Plant Cell Reports*, **2016**, 35, 1385-96	5.1	29
184	Accumulation of Carotenoids and Metabolic Profiling in Different Cultivars of Tagetes Flowers. *Molecules*, **2017**, 22,	4.8	28
183	Molecular cloning and characterization of phenylalanine ammonia-lyase and cinnamate 4-hydroxylase in the phenylpropanoid biosynthesis pathway in garlic (Allium sativum). *Journal of Agricultural and Food Chemistry*, **2010**, 58, 10911-7	5.7	28
182	Enhancing sorgoleone levels in grain sorghum root exudates. *Journal of Chemical Ecology*, **2010**, 36, 914-22	2.7	28
181	Triterpene and Flavonoid Biosynthesis and Metabolic Profiling of Hairy Roots, Adventitious Roots, and Seedling Roots of Astragalus membranaceus. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 8862-9	5.7	27
180	Transcriptome Analysis and Metabolic Profiling of. *Biology*, **2019**, 8,	4.9	26
179	Effects of cold stress on transcripts and metabolites in tartary buckwheat (Fagopyrum tataricum). *Environmental and Experimental Botany*, **2018**, 155, 488-496	5.9	26
178	Age-dependent Distribution of Fungal Endophytes in Panax ginseng Roots Cultivated in Korea. *Journal of Ginseng Research*, **2012**, 36, 327-33	5.8	26

177	Metabolic profiling of pale green and purple kohlrabi (Brassica oleracea var. gongylodes). *Applied Biological Chemistry*, **2017**, 60, 249-257	2.9	25
176	Enhancement of rutin in Fagopyrum esculentum hairy root cultures by the Arabidopsis transcription factor AtMYB12. *Biotechnology Letters*, **2012**, 34, 577-83	3	25
175	Molecular characterisation and the light-dark regulation of carotenoid biosynthesis in sprouts of tartary buckwheat (Fagopyrum tataricum Gaertn.). *Food Chemistry*, **2013**, 141, 3803-12	8.5	25
174	Influence of Indole-3-Acetic Acid and Gibberellic Acid on Phenylpropanoid Accumulation in Common Buckwheat (Fagopyrum esculentum Moench) Sprouts. *Molecules*, **2017**, 22,	4.8	25
173	LED Lights Enhance Metabolites and Antioxidants in Chinese Cabbage and Kale. *Brazilian Archives of Biology and Technology*, **2016**, 59,	1.8	25
172	Metabolic differentiation of diamondback moth (Plutella xylostella (L.)) resistance in cabbage (Brassica oleracea L. ssp. capitata). *Journal of Agricultural and Food Chemistry*, **2013**, 61, 11222-30	5.7	24
171	Influence of Chitosan, Salicylic Acid and Jasmonic Acid on Phenylpropanoid Accumulation in Germinated Buckwheat (Moench). *Foods*, **2019**, 8,	4.9	23
170	Differentiated cuticular wax content and expression patterns of cuticular wax biosynthetic genes in bloomed and bloomless broccoli (Brassica oleracea var. italica). *Process Biochemistry*, **2015**, 50, 456-462	4.8	22
169	Phenolic compound profiles and their seasonal variations in new red-phenotype head-forming Chinese cabbages. *LWT - Food Science and Technology*, **2018**, 90, 433-439	5.4	22
168	Identification and quantification of carotenoids in paprika fruits and cabbage, kale, and lettuce leaves **2014**, 57, 355-358		22
167	Medically important carotenoids from and their gene expressions in different organs. *Saudi Journal of Biological Sciences*, **2017**, 24, 1913-1919	4	22
166	Enhancement of chlorogenic acid production in hairy roots of Platycodon grandiflorum by over-expression of an Arabidopsis thaliana transcription factor AtPAP1. *International Journal of Molecular Sciences*, **2014**, 15, 14743-52	6.3	22
165	Metabolomics for the quality assessment of Lycium chinense fruits. *Bioscience, Biotechnology and Biochemistry*, **2012**, 76, 2188-94	2.1	22
164	Fungal Endophytes from Three Cultivars of Panax ginseng Meyer Cultivated in Korea. *Journal of Ginseng Research*, **2012**, 36, 107-13	5.8	22
163	Metabolomic analysis and differential expression of anthocyanin biosynthetic genes in white- and red-flowered buckwheat cultivars (Fagopyrum esculentum). *Journal of Agricultural and Food Chemistry*, **2013**, 61, 10525-33	5.7	22
162	Influence of light on the free amino acid content and □aminobutyric acid synthesis in Brassica juncea seedlings. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 8624-31	5.7	22
161	Far infrared irradiation alters total polyphenol, total flavonoid, antioxidant property and quercetin production in tartary buckwheat sprout powder. *Journal of Cereal Science*, **2014**, 59, 167-172	3.8	21
160	Physiological Roles of Rutin in the Buckwheat Plant. *Japan Agricultural Research Quarterly*, **2015**, 49, 37-43	0.5	21

159	Cloning and characterization of phenylalanine ammonia-lyase and cinnamate 4-hydroxylase and pyranocoumarin biosynthesis in Angelica gigas. *Journal of Natural Products*, **2010**, 73, 1394-7	4.9	21
158	Effects of LED lights on Expression of Genes Involved in Phenylpropanoid Biosynthesis and Accumulation of Phenylpropanoids in Wheat Sprout. *Agronomy*, **2019**, 9, 307	3.6	20
157	Comparative analysis of flavonoids and polar metabolites from hairy roots of Scutellaria baicalensis and Scutellaria lateriflora. *World Journal of Microbiology and Biotechnology*, **2014**, 30, 887-92	4.4	20
156	Determination of lipophilic metabolites for species discrimination and quality assessment of nine leafy vegetables **2015**, 58, 909-918		20
155	Analysis of Metabolites in White Flowers of Desr. and Violet Flowers of Desr. *Molecules*, **2018**, 23,	4.8	19
154	Effects of jasmonates on sorgoleone accumulation and expression of genes for sorgoleone biosynthesis in sorghum roots. *Journal of Chemical Ecology*, **2013**, 39, 712-22	2.7	19
153	Regulation of the major vacuolar Ca□+ transporter genes, by intercellular Ca□+ concentration and abiotic stresses, in tip-burn resistant Brassica oleracea. *Molecular Biology Reports*, **2013**, 40, 177-88	2.8	17
152	Comparative Phytochemical Analyses and Metabolic Profiling of Different Phenotypes of Chinese Cabbage (ssp.). *Foods*, **2019**, 8,	4.9	17
151	Metabolic Profiling of Nine Species and Prediction of Their Antioxidant Properties Using Chemometrics. *Molecules*, **2019**, 24,	4.8	17
150	Molecular characterization of anthocyanin and betulinic acid biosynthesis in red and white mulberry fruits using high-throughput sequencing. *Food Chemistry*, **2019**, 279, 364-372	8.5	17
149	Overexpression of cinnamate 4-hydroxylase gene enhances biosynthesis of decursinol angelate in Angelica gigas hairy roots. *Molecular Biotechnology*, **2012**, 50, 114-20	3	16
148	Targeted metabolite profiling to evaluate unintended metabolic changes of genetic modification in resveratrol-enriched rice (Oryza sativa L.). *Applied Biological Chemistry*, **2017**, 60, 205-214	2.9	15
147	An update on biosynthesis and regulation of carotenoids in plants. *South African Journal of Botany*, **2020**, 140, 290-290	2.9	15
146	Recent studies on rosmarinic acid and its biological and pharmacological activities. *EXCLI Journal*, **2014**, 13, 1192-5	2.4	15
145	Metabolic Profiling-Based Evaluation of the Fermentative Behavior of and for Soybean Residues Treated at Different Temperatures. *Foods*, **2020**, 9,	4.9	14
144	Accumulation of flavonoids and related gene expressions in different organs of Astragalus membranaceus Bge. *Applied Biochemistry and Biotechnology*, **2014**, 173, 2076-85	3.2	14
143	Accumulation of kaempferitrin and expression of phenyl-propanoid biosynthetic genes in kenaf (Hibiscus cannabinus). *Molecules*, **2014**, 19, 16987-97	4.8	14
142	Accumulation of astragalosides and related gene expression in different organs of Astragalus membranaceus Bge. var mongholicus (Bge.). *Molecules*, **2014**, 19, 10922-35	4.8	14

141	Overexpression of phenylalanine ammonia-lyase improves flavones production in transgenic hairy root cultures of Scutellaria baicalensis. *Process Biochemistry*, **2012**, 47, 2575-2580	4.8	14
140	An efficient protocol for genetic transformation of Platycodon grandiflorum with Agrobacterium rhizogenes. *Molecular Biology Reports*, **2011**, 38, 2307-13	2.8	14
139	Analysis of carotenoid accumulation and expression of carotenoid biosynthesis genes in different organs of Chinese cabbage (Brassica rapa subsp. pekinensis). *EXCLI Journal*, **2012**, 11, 508-16	2.4	14
138	Transcriptional Profiling and Molecular Characterization of Astragalosides, Calycosin, and Calycosin-7-O-β-D-glucoside Biosynthesis in the Hairy Roots of Astragalus membranaceus in Response to Methyl Jasmonate. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 6231-40	5.7	13
137	Transcriptome and metabolome analysis in shoot and root of Valeriana fauriei. *BMC Genomics*, **2016** , 17, 303	4.5	13
136	Molecular cloning and characterization of genes involved in rosmarinic acid biosynthesis from Prunella vulgaris. *Biological and Pharmaceutical Bulletin*, **2014**, 37, 1221-7	2.3	13
135	Influence of Auxins on Glucosinolate Biosynthesis in Hairy Root Cultures of Broccoli (Brassica oleracea var. italica). *Asian Journal of Chemistry*, **2013**, 25, 6099-6101	0.4	13
134	Accumulation of phenylpropanoids and correlated gene expression in hairy roots of tartary buckwheat under light and dark conditions. *Applied Biochemistry and Biotechnology*, **2014**, 174, 2537-47	3.2	13
133	Molecular characterization of carotenoid cleavage dioxygenases and the effect of gibberellin, abscisic acid, and sodium chloride on the expression of genes involved in the carotenoid biosynthetic pathway and carotenoid accumulation in the callus of Scutellaria baicalensis Georgi. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 5565-72	5.7	13
132	Characterization of genes for a putative hydroxycinnamoyl-coenzyme A quinate transferase and p-coumarate 3Shydroxylase and chlorogenic acid accumulation in tartary buckwheat. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 4120-6	5.7	13
131	Carotenoid accumulation and characterization of cDNAs encoding phytoene synthase and phytoene desaturase in garlic (Allium sativum). *Journal of Agricultural and Food Chemistry*, **2011**, 59, 5412-7	2.7	13
130	Fagopyrum tataricum FtWD40 Functions as a Positive Regulator of Anthocyanin Biosynthesis in Transgenic Tobacco. *Journal of Plant Growth Regulation*, **2017**, 36, 755-765	4.7	12
129	Biological activity of various radish species. *Oriental Pharmacy and Experimental Medicine*, **2015**, 15, 105-111	2	12
128	Accumulation of Anthocyanins through Overexpression of AtPAP1 in Solanum nigrum Lin. (Black Nightshade). *Biomolecules*, **2020**, 10,	5.9	12
127	Molecular characterization of glucosinolates and carotenoid biosynthetic genes in Chinese cabbage (L. ssp.). *Saudi Journal of Biological Sciences*, **2018**, 25, 71-82	4	12
126	Ginseng: a miracle sources of herbal and pharmacological uses. *Oriental Pharmacy and Experimental Medicine*, **2016**, 16, 243-250	2	12
125	Comparative Metabolic Profiling of Green and Purple Pakchoi (Subsp.). *Molecules*, **2018**, 23,	4.8	12
124	Accumulation of Charantin and Expression of Triterpenoid Biosynthesis Genes in Bitter Melon (Momordica charantia). *Journal of Agricultural and Food Chemistry*, **2017**, 65, 7240-7249	5.7	12

123	Phenolic Compound Content in Different Organs of Korean Common Buckwheat Cultivars. *Asian Journal of Chemistry*, **2013**, 25, 424-426	0.4	12
122	Enhancement of the flavone contents of Scutellaria baicalensis hairy roots via metabolic engineering using maize Lc and Arabidopsis PAP1 transcription factors. *Metabolic Engineering*, **2021**, 64, 64-73	9.7	12
121	Molecular cloning and characterization of rosmarinic acid biosynthetic genes and rosmarinic acid accumulation in L. *Saudi Journal of Biological Sciences*, **2019**, 26, 469-472	4	12
120	Enhancement of Glucosinolate Production in Watercress (Nasturtium officinale) Hairy Roots by Overexpressing Cabbage Transcription Factors. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 4860-4867	5.7	11
119	Metabolomic Profiling of the White, Violet, and Red Flowers of Maxim. *Molecules*, **2018**, 23,	4.8	11
118	Production of rosmarinic acid and correlated gene expression in hairy root cultures of green and purple basil (L.). *Preparative Biochemistry and Biotechnology*, **2021**, 51, 35-43	2.4	11
117	Comparative Analysis of Secondary Metabolites and Metabolic Profiling between Diploid and Tetraploid L. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 1300-1307	5.7	11
116	Red Chinese Cabbage Transcriptome Analysis Reveals Structural Genes and Multiple Transcription Factors Regulating Reddish Purple Color. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	10
115	Metabolomics of differently colored Gladiolus cultivars. *Applied Biological Chemistry*, **2016**, 59, 597-607	2.9	10
114	Accumulation of anthocyanin and related genes expression during the development of cabbage seedlings. *Process Biochemistry*, **2014**, 49, 1084-1091	4.8	10
113	Cloning and characterization of indole synthase (INS) and a putative tryptophan synthase □subunit (TSA) genes from Polygonum tinctorium. *Plant Cell Reports*, **2016**, 35, 2449-2459	5.1	10
112	A Comparative Study of Phenolic Antioxidant Activity and Flavonoid Biosynthesis-Related Gene Expression Between Summer and Winter Strawberry Cultivars. *Journal of Food Science*, **2017**, 82, 341-349	3.4	9
111	Chemical Compositions of the Volatile Oils and Antibacterial Screening of Solvent Extract from Downy Lavender. *Foods*, **2019**, 8,	4.9	9
110	Molecular characterization of flavonoid biosynthetic genes and accumulation of baicalin, baicalein, and wogonin in plant and hairy root of. *Saudi Journal of Biological Sciences*, **2018**, 25, 1639-1647	4	9
109	Profiling of the Major Phenolic Compounds and Their Biosynthesis Genes in Aiton. *Scientific World Journal, The*, **2018**, 2018, 6218430	2.2	9
108	Molecular cloning and characterization of cDNAs encoding carotenoid cleavage dioxygenase in bitter melon (Momordica charantia). *Journal of Plant Physiology*, **2013**, 170, 115-20	3.6	9
107	Influence of light-emitting diodes on phenylpropanoid biosynthetic gene expression and phenylpropanoid accumulation in Agastache rugosa. *Applied Biological Chemistry*, **2020**, 63,	2.9	9
106	Molecular characterization of carotenoid biosynthetic genes and carotenoid accumulation in Scutellaria baicalensis Georgi. *EXCLI Journal*, **2015**, 14, 146-57	2.4	9

105	Effects of Light-Emitting Diodes on the Accumulation of Phenolic Compounds and Glucosinolates in Brassica juncea Sprouts. *Horticulturae*, **2020**, 6, 77	2.5	9
104	Metabolite Profiling and Comparative Analysis of Secondary Metabolites in Chinese Cabbage, Radish, and Hybrid. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 13711-13719	5.7	9
103	Transcriptome Analysis and Metabolic Profiling of Green and Red Mizuna (L. var.). *Foods*, **2020**, 9,	4.9	9
102	Glucosinolate biosynthesis in hairy root cultures of broccoli (Brassica oleracea var. italica). *Natural Product Communications*, **2013**, 8, 217-20	0.9	9
101	Variation of glucosinolate accumulation and gene expression of transcription factors at different stages of Chinese cabbage seedlings under light and dark conditions. *Natural Product Communications*, **2014**, 9, 533-7	0.9	9
100	Overexpression of cinnamate 4-hydroxylase and 4-coumaroyl CoA ligase prompted flavone accumulation in Scutellaria baicalensis hairy roots. *Natural Product Communications*, **2014**, 9, 803-7	0.9	9
99	Expression levels of carotenoid biosynthetic genes and carotenoid production in the callus of scutellaria baicalensis exposed to white, blue, and red light-emitting diodes. *Applied Biological Chemistry*, **2017**, 60, 591-596	2.9	8
98	Effect of Salinity Stress on Phenylpropanoid Genes Expression and Related Gene Expression in Wheat Sprout. *Agronomy*, **2020**, 10, 390	3.6	8
97	Integrated Proteomics and Metabolomics Analysis Highlights Correlative Metabolite-Protein Networks in Soybean Seeds Subjected to Warm-Water Soaking. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 8057-8067	5.7	8
96	Identification and Characterization of Phenylpropanoid Biosynthetic Genes and Their Accumulation in Bitter Melon (Momordica charantia). *Molecules*, **2018**, 23,	4.8	8
95	Comparison of Different Strains of Agrobacterium rhizogenes for Hairy Root Induction and Betulin and Betulinic Acid Production in Morus alba. *Natural Product Communications*, **2017**, 12, 1934578X1701200	0.9	8
94	Yeast extract improved biosynthesis of astragalosides in hairy root cultures of. *Preparative Biochemistry and Biotechnology*, **2021**, 51, 467-474	2.4	8
93	Metabolic Profiling and Chemical-Based Antioxidant Assays of Green and Red Lettuce (Lactuca sativa). *Natural Product Communications*, **2018**, 13, 1934578X1801300	0.9	8
92	Influence of Different Carbohydrates on Flavonoid Accumulation in Hairy Root Cultures of Scutellaria baicalensis. *Natural Product Communications*, **2016**, 11, 799-802	0.9	8
91	Ethephon-induced phenylpropanoid accumulation and related gene expression in tartary buckwheat (Fagopyrum tataricum (L.) Gaertn.) hairy root. *Biotechnology and Biotechnological Equipment*, **2017**, 31, 304-311	1.6	7
90	Metabolic Analysis of Four Cultivars of. *Metabolites*, **2019**, 9,	5.6	7
89	Carotenoid Biosynthesis in Oriental Melon (L. var.). *Foods*, **2019**, 8,	4.9	7
88	Chemical Composition of Essential Oils from Flower and Leaf of Korean Mint, Agastache rugosa. *Asian Journal of Chemistry*, **2013**, 25, 4361-4363	0.4	7

87	Molecular characterization of carotenoid biosynthetic genes and carotenoid accumulation in Lycium chinense. *Molecules*, **2014**, 19, 11250-62	4.8	7
86	Accumulation of flavonoids and expression of flavonoid biosynthetic genes in tartary and rice-tartary buckwheat. *Process Biochemistry*, **2012**, 47, 2306-2310	4.8	7
85	Recent studies on resveratrol and its biological and pharmacological activity. *EXCLI Journal*, **2017**, 16, 602-608	2.4	7
84	Effect of Light and Dark on the Phenolic Compound Accumulation in Tartary Buckwheat Hairy Roots Overexpressing. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	7
83	Accumulation of Phenylpropanoids in Tartary Buckwheat (Fagopyrum tataricum) under Salt Stress. *Agronomy*, **2019**, 9, 739	3.6	7
82	Metabolomic analysis reveals the interaction of primary and secondary metabolism in white, pale green, and green pak choi (Brassica rapa subsp. chinensis). *Applied Biological Chemistry*, **2021**, 64,	2.9	7
81	Metabolic profiling and antioxidant activity during flower development in. *Physiology and Molecular Biology of Plants*, **2021**, 27, 445-455	2.8	7
80	Metabolic Analysis of Vigna unguiculata Sprouts Exposed to Different Light-Emitting Diodes. *Natural Product Communications*, **2018**, 13, 1934578X1801301	0.9	7
79	Quantification of Arbutin in Plant Extracts by Stable Isotope Dilution Gas Chromatography Mass Spectrometry. *Chromatographia*, **2018**, 81, 533-538	2.1	6
78	Molecular cloning and characterization of mevalonic acid (MVA) pathway genes and triterpene accumulation in Panax ginseng **2014**, 57, 289-295		6
77	Cloning and characterization of a flavonol synthase gene from Scutellaria baicalensis. *Scientific World Journal, The*, **2014**, 2014, 980740	2.2	6
76	Riboflavin accumulation and molecular characterization of cDNAs encoding bifunctional GTP cyclohydrolase II/3,4-dihydroxy-2-butanone 4-phosphate synthase, lumazine synthase, and riboflavin synthase in different organs of Lycium chinense plant. *Molecules*, **2014**, 19, 17141-53	4.8	6
75	Variation of Charantin Content in Different Bitter Melon Cultivars. *Asian Journal of Chemistry*, **2014**, 26, 309-310	0.4	6
74	Effects of auxins on sorgoleone accumulation and genes for sorgoleone biosynthesis in sorghum roots. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 12948-53	5.7	6
73	Metabolite Profiling Reveals Distinct Modulation of Complex Metabolic Networks in Non-Pigmented, Black, and Red Rice (L.) Cultivars. *Metabolites*, **2021**, 11,	5.6	6
72	Expression of Terpenoid Biosynthetic Genes and Accumulation of Chemical Constituents in Valeriana fauriei. *Molecules*, **2016**, 21,	4.8	6
71	Intracellular Ca(2+) and K(+) concentration in Brassica oleracea leaf induces differential expression of transporter and stress-related genes. *BMC Genomics*, **2016**, 17, 211	4.5	6
70	Production of Flavonoids in Callus Cultures of Aiton. *Plants*, **2020**, 9,	4.5	5

69	Molecular Cloning and Characterization of Carotenoid Pathway Genes and Carotenoid Content in Ixeris dentata var. albiflora. *Molecules*, **2017**, 22,	4.8	5
68	Comparative analysis of glucosinolates and metabolite profiling of green and red mustard () hairy roots. *3 Biotech*, **2018**, 8, 382	2.8	5
67	Expression of Genes Related to Phenylpropanoid Biosynthesis in Different Organs of Ixeris dentata var. albiflora. *Molecules*, **2017**, 22,	4.8	5
66	Variation of Glucosinolate Accumulation and Gene Expression of Transcription Factors at Different Stages of Chinese Cabbage Seedlings under Light and Dark Conditions. *Natural Product Communications*, **2014**, 9, 1934578X1400900	0.9	5
65	Sorgoleone, a sorghum root exudate: Algicidal activity and acute toxicity to the ricefish Oryzias latipes. *Aquatic Botany*, **2012**, 98, 40-44	1.8	5
64	Recent studies on flavonoids and their antioxidant activities. *EXCLI Journal*, **2013**, 12, 226-30	2.4	5
63	Anticancer compounds from plants. *EXCLI Journal*, **2012**, 11, 386-9	2.4	5
62	Transcriptomic Analysis, Cloning, Characterization, and Expression Analysis of Triterpene Biosynthetic Genes and Triterpene Accumulation in the Hairy Roots of Exposed to Methyl Jasmonate. *ACS Omega*, **2021**, 6, 12820-12830	3.9	5
61	Effect of Auxins on Anthocyanin Accumulation in Hairy Root Cultures of Tartary Buckwheat Cultivar Hokkai T10. *Natural Product Communications*, **2016**, 11, 1934578X1601100	0.9	5
60	Profiles of Secondary Metabolites (Phenolic Acids, Carotenoids, Anthocyanins, and Galantamine) and Primary Metabolites (Carbohydrates, Amino Acids, and Organic Acids) during Flower Development in. *Biomolecules*, **2021**, 11,	5.9	5
59	Determination and quantification of arbutin in plants using stable isotope dilution liquid chromatography–mass spectrometry. *Applied Biological Chemistry*, **2018**, 61, 523-530	2.9	5
58	Metabolic profiling reveals glucose and fructose accumulation in gcr1 knock-out mutant of Arabidopsis. *Applied Biological Chemistry*, **2019**, 62,	2.9	4
57	Enhancement of phenylpropanoid accumulation in tartary buckwheat hairy roots by overexpression of MYB transcription factors. *Industrial Crops and Products*, **2020**, 156, 112887	5.9	4
56	Estimation of functional components of Chinese cabbage leaves grown in a plant factory using diffuse reflectance spectroscopy. *Journal of the Science of Food and Agriculture*, **2019**, 99, 711-718	4.3	4
55	Transcripts of anthocyanidin reductase and leucoanthocyanidin reductase and measurement of catechin and epicatechin in tartary buckwheat. *Scientific World Journal, The*, **2014**, 2014, 726567	2.2	4
54	Riboflavin accumulation and characterization of cDNAs encoding lumazine synthase and riboflavin synthase in bitter melon (Momordica charantia). *Journal of Agricultural and Food Chemistry*, **2012**, 60, 11980-6	5.7	4
53	Increased indigoid accumulation by plant defense activators in Polygonum tinctorium Lour. **2012**, 55, 359-362		4
52	Production of Bacalin, Bacalein and Wogonin in Hairy Root Culture of American Skullcap (Scutellaria lateriflora)by Auxin Treatment. *Biosciences, Biotechnology Research Asia*, **2017**, 14, 673-677	0.5	4

51	The Effect of Different Drying Methods on Primary and Secondary Metabolites in Korean Mint Flower. *Agronomy*, **2021**, 11, 698	3.6	4
50	FtBPM3 modulates the orchestration of FtMYB11-mediated flavonoids biosynthesis in Tartary buckwheat. *Plant Biotechnology Journal*, **2021**, 19, 1285-1287	11.6	4
49	Comparison of Different Strains of Agrobacterium rhizogenes for Hairy Root Induction and Betulin and Betulinic Acid Production in Morus alba. *Natural Product Communications*, **2017**, 12, 479-482	0.9	4
48	Dynamics of Short-Term Metabolic Profiling in Radish Sprouts (L.) in Response to Nitrogen Deficiency. *Plants*, **2019**, 8,	4.5	3
47	Comparative analysis of glucosinolate production in hairy roots of green and red kale (var.). *Preparative Biochemistry and Biotechnology*, **2019**, 49, 775-782	2.4	3
46	Elevated Ozone Levels Affect Metabolites and Related Biosynthetic Genes in Tartary Buckwheat. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 14758-14767	5.7	3
45	Improved quantification of □aminobutyric acid in rice using stable isotope dilution gas chromatography-mass spectrometry. *Food Chemistry*, **2018**, 266, 375-380	8.5	3
44	Methyl Jasmonate- and Light-Induced Glucosinolate and Anthocyanin Biosynthesis in Radish Seedlings. *Natural Product Communications*, **2015**, 10, 1934578X1501000	0.9	3
43	Characterization of cDNA Encoding Resveratrol Synthase and Accumulation of Resveratrol in Tartary Buckwheat. *Natural Product Communications*, **2013**, 8, 1934578X1300801	0.9	3
42	Location of Sampling Points in Optical Reflectance Measurements of Chinese Cabbage and Kale Leaves. *Journal of Biosystems Engineering*, **2015**, 40, 115-123	1.1	3
41	Metabolic Profiling of Primary Metabolites and Galantamine Biosynthesis in Wounded Callus. *Plants* , **2020**, 9,	4.5	3
40	Evaluation of Growth, Yield, and Biochemical Attributes of Bitter Gourd (L.) Cultivars under Karaj Conditions in Iran. *Plants*, **2021**, 10,	4.5	3
39	Characterization of cDNA encoding resveratrol synthase and accumulation of resveratrol in tartary buckwheat. *Natural Product Communications*, **2013**, 8, 1571-4	0.9	3
38	Identification and analysis of phenylpropanoid biosynthetic genes and phenylpropanoid accumulation in watercress (R. Br.). *3 Biotech*, **2020**, 10, 260	2.8	2
37	Subcellular Localization Studies of Three Phenylalanine Ammonia-Lyases and Cinnamate 4-Hydroxylase from Scutellaria Baicalensis Using GFP Fusion Proteins. *OnLine Journal of Biological Sciences*, **2015**, 15, 70-73	1	2
36	Resveratrol Production from Hairy Root Cultures of Scutellaria baicalensis. *Natural Product Communications*, **2013**, 8, 1934578X1300800	0.9	2
35	Overexpression of Cinnamate 4-Hydroxylase and 4-Coumaroyl CoA Ligase Prompted Flavone Accumulation in Scutellaria baicalensis Hairy Roots. *Natural Product Communications*, **2014**, 9, 1934578X1400900	0.9	2
34	Molecular Cloning and Characterization of Tyrosine Aminotransferase and Hydroxyphenylpyruvate Reductase, and Rosmarinic Acid Accumulation in Scutellaria baicalensis. *Natural Product Communications*, **2014**, 9, 1934578X1400900	0.9	2

33	Metabolomic Variability of Different Soybean Genotypes: -Carotene-Enhanced (), Wild (), and Hybrid ( ) Soybeans. *Foods*, **2021**, 10,	4.9	2
32	Integrated Analysis of Transcriptome and Metabolome in Fisch ex DC. *ACS Omega*, **2020**, 5, 29312-29324	3.9	2
31	Estimation of Glucosinolates and Anthocyanins in Kale Leaves Grown in a Plant Factory Using Spectral Reflectance. *Horticulturae*, **2021**, 7, 56	2.5	2
30	Resveratrol Biosynthesis in Hairy Root Cultures of Tan and Purple Seed Coat Peanuts. *Agronomy*, **2021**, 11, 975	3.6	2
29	Integrated Analysis of Transcriptome and Metabolome and Evaluation of Antioxidant Activities in. *Antioxidants*, **2021**, 10,	7.1	2
28	Accumulation of Phenolic Compounds and Glucosinolates in Sprouts of Pale Green and Purple Kohlrabi (Brassica oleracea var. gongylodes) under Light and Dark Conditions. *Agronomy*, **2021**, 11, 1939	3.6	2
27	Comparison of Secondary Metabolite Contents and Metabolic Profiles of Six Lycoris Species. *Horticulturae*, **2021**, 7, 5	2.5	2
26	Identification, Characterization, and Expression Analysis of Carotenoid Biosynthesis Genes and Carotenoid Accumulation in Watercress (R. Br.).. *ACS Omega*, **2022**, 7, 430-442	3.9	2
25	Expression Analysis of Phenylpropanoid Pathway Genes and Metabolomic Analysis of Phenylpropanoid Compounds in Adventitious, Hairy, and Seedling Roots of Tartary Buckwheat.. *Plants*, **2021**, 11,	4.5	2
24	Diosgenin Biosynthesis in the Sprouts of Fenugreek as Influenced by Chitosan. *OnLine Journal of Biological Sciences*, **2019**, 19, 104-109	1	1
23	Determination of the sample number for optical reflectance measurement of vegetable leaf. *Computers and Electronics in Agriculture*, **2015**, 112, 110-115	6.5	1
22	EST sequencing and gene expression profiling in Scutellaria baicalensis. *EXCLI Journal*, **2014**, 13, 392-400	2.4	1
21	Flavonoids for treatment of Alzheimer's disease: An up to date review. *EXCLI Journal*, **2021**, 20, 495-502	2.4	1
20	Number of sampling leaves for reflectance measurement of Chinese cabbage and kale. *Korean Journal of Agricultural Science*, **2014**, 41, 169-175		1
19	Betaine Hydrochloride Treatment Affects Growth and Phenylpropanoid Accumulation in Tartary Buckwheat (Fagopyrum tataricum) Seedlings under Salt Stress. *Agronomy*, **2020**, 10, 906	3.6	1
18	Molecular Characterization of Terpenoid Biosynthetic Genes and Terpenoid Accumulation in Phlomis umbrosa Turczaninow. *Horticulturae*, **2020**, 6, 76	2.5	1
17	Metabolite Profiling and Chemometric Study for the Discrimination Analyses of Geographic Origin of Perilla () and Sesame () Seeds. *Foods*, **2020**, 9,	4.9	1
16	Biosynthesis of phenylpropanoids and their protective effect against heavy metals in nitrogen-fixing black locust (Robinia pseudoacacia). *Tropical Journal of Pharmaceutical Research*, **2020**, 19, 1065-1072	0.8	1

15	Impact of copper treatment on phenylpropanoid biosynthesis in adventitious root culture of L. *Preparative Biochemistry and Biotechnology*, **2021**, 1-9	2.4	1
14	Influence of Different Carbohydrates on Flavonoid Accumulation in Hairy Root Cultures of Scutellaria baicalensis. *Natural Product Communications*, **2016**, 11, 1934578X1601100	0.9	1
13	Expression of Carotenoid Biosynthetic Genes and Carotenoid Biosynthesis during Seedling Development of Momordica charantia. *Natural Product Communications*, **2018**, 13, 1934578X1801300	0.9	1
12	Molecular Characterization, Expression Analysis of Carotenoid, Xanthophyll, Apocarotenoid Pathway Genes, and Carotenoid and Xanthophyll Accumulation in L. *Plants*, **2021**, 10,	4.5	1
11	Application of Fourier Transform Infrared Spectroscopy and Multivariate Analysis Methods for the Non-Destructive Evaluation of Phenolics Compounds in Moringa Powder. *Agriculture (Switzerland)*, **2022**, 12, 10	3	1
10	Metabolic profiling and antioxidant properties of hybrid soybeans with different seed coat colors, obtained by crossing β-carotene-enhanced (Glycine max) and wild (Glycine soja) soybeans. *Plant Biotechnology Reports*,1	2.5	1
9	Recent studies on pinene and its biological and pharmacological activities. *EXCLI Journal*, **2021**, 20, 812-818	2.4	0
8	Improvement of Phenylpropanoid Production with Elicitor Treatments in Pimpinella brachycarpa Nakai. *Horticulturae*, **2020**, 6, 108	2.5	0
7	Metabolic Profiling of White and Green Radish Cultivars (Raphanus sativus). *Horticulturae*, **2022**, 8, 310	2.5	0
6	Blue and White LED Lights Enhance Biosynthesis of Rosmarinic Acid in Cell Culture of Agastache rugosa. *OnLine Journal of Biological Sciences*, **2020**, 20, 107-114	1	
5	Metabolic Analysis of Carotenoids and Phenolic Compounds Found in Green and Purple Kenaf. *Natural Product Communications*, **2020**, 15, 1934578X2097113	0.9	
4	Impact of Betaine Under Salinity on Accumulation of Phenolic Compounds in Safflower (Carthamus tinctorius L.) Sprouts. *Natural Product Communications*, **2021**, 16, 1934578X2110150	0.9	
3	Enhancing Astragaloside Production in Astragalus membranaceus through Growth Media and Auxins. *OnLine Journal of Biological Sciences*, **2018**, 18, 116-122	1	
2	Applications of Plant Tissue Culture and Biotechnology in Buckwheat **2018**, 333-341		
1	Effects of light conditions on growth and glucosinolate content of Chinese cabbage grown in a plant factory. *Acta Horticulturae*, **2022**, 171-178	0.3	