

Sun-Ju Kim

List of Publications by Year in descending order

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101
papers

3,276
citations

101496

36
h-index

175177

52
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102
all docs

102
docs citations

102
times ranked

3211
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of phenolic compositions between common and tartary buckwheat (<i>Fagopyrum</i>) sprouts. <i>Food Chemistry</i> , 2008, 110, 814-820.	4.2	157
2	Influence of different LED lamps on the production of phenolic compounds in common and Tartary buckwheat sprouts. <i>Industrial Crops and Products</i> , 2014, 54, 320-326.	2.5	104
3	Anthocyanin Accumulation and Expression of Anthocyanin Biosynthetic Genes in Radish (<i>Raphanus</i>) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50 1	2.4	99
4	Effect of Different Agrobacterium rhizogenes Strains on Hairy Root Induction and Phenylpropanoid Biosynthesis in Tartary Buckwheat (<i>Fagopyrum tataricum</i> Gaertn). <i>Frontiers in Microbiology</i> , 2016, 7, 318.	1.5	83
5	Variation of quercetin glycoside derivatives in three onion (<i>Allium cepa</i> L.) varieties. <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 1387-1391.	1.8	80
6	Effects of White, Blue, and Red Light-Emitting Diodes on Carotenoid Biosynthetic Gene Expression Levels and Carotenoid Accumulation in Sprouts of Tartary Buckwheat (<i>Fagopyrum tataricum</i> Gaertn.). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12356-12361.	2.4	79
7	Effects of Light-Emitting Diodes on Expression of Phenylpropanoid Biosynthetic Genes and Accumulation of Phenylpropanoids in <i>Fagopyrum tataricum</i> Sprouts. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4839-4845.	2.4	79
8	Transcriptome analysis and metabolic profiling of green and red kale (<i>Brassica oleracea</i> var. <i>acephala</i>) seedlings. <i>Food Chemistry</i> , 2018, 241, 7-13.	4.2	75
9	Glucosinolate profiles in the seeds, leaves and roots of rocket salad (<i>Eruca sativa</i> Mill.) and anti-oxidative activities of intact plant powder and purified 4-methoxyglucobrassicin. <i>Soil Science and Plant Nutrition</i> , 2006, 52, 394-400.	0.8	71
10	Metabolic Profiling of Glucosinolates, Anthocyanins, Carotenoids, and Other Secondary Metabolites in Kohlrabi (<i>Brassica oleracea</i> var. <i>gongylodes</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 8111-8116.	2.4	70
11	Effect of nitrogen and sulphur application on the glucosinolate content in vegetable turnip rape (<i>Brassica rapa</i> L.). <i>Soil Science and Plant Nutrition</i> , 2002, 48, 43-49.	0.8	69
12	MYB Transcription Factors Regulate Glucosinolate Biosynthesis in Different Organs of Chinese Cabbage (<i>Brassica rapa</i> ssp. <i>pekinensis</i>). <i>Molecules</i> , 2013, 18, 8682-8695.	1.7	68
13	Variation of glucosinolates in 62 varieties of Chinese cabbage (<i>Brassica rapa</i> L. ssp. <i>pekinensis</i>) and their antioxidant activity. <i>LWT - Food Science and Technology</i> , 2014, 58, 93-101.	2.5	66
14	Identification of Anthocyanins in the Sprouts of Buckwheat. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6314-6318.	2.4	65
15	Phenylalanine and LED lights enhance phenolic compound production in Tartary buckwheat sprouts. <i>Food Chemistry</i> , 2015, 177, 204-213.	4.2	63
16	Metabolic Profiling and Antioxidant Assay of Metabolites from Three Radish Cultivars (<i>Raphanus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.7	63
17	Antifeedant, larvicidal and growth inhibitory bioactivities of novel polyketide metabolite isolated from <i>Streptomyces</i> sp. AP-123 against <i>Helicoverpa armigera</i> and <i>Spodoptera litura</i> . <i>BMC Microbiology</i> , 2013, 13, 105.	1.3	62
18	Quantification of glucosinolates, anthocyanins, free amino acids, and vitamin C in inbred lines of cabbage (<i>Brassica oleracea</i> L.). <i>Food Chemistry</i> , 2014, 145, 77-85.	4.2	62

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19	Determination of the phosphorus content in potato starch using an energy-dispersive X-ray fluorescence method. <i>Food Chemistry</i> , 2006, 95, 632-637.	4.2	57
20	Characterisation of anthocyanins and proanthocyanidins of adzuki bean extracts and their antioxidant activity. <i>Journal of Functional Foods</i> , 2015, 14, 692-701.	1.6	57
21	Structural Elucidation of 4-(Cystein-S-yl)butyl Glucosinolate from the Leaves of <i>Eruca sativa</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 114-121.	0.6	55
22	Characterization of peroxidase in buckwheat seed. <i>Phytochemistry</i> , 2006, 67, 219-224.	1.4	54
23	Isolation and Structural Elucidation of 4-(β -D-Glucopyranosyldisulfanyl)butyl Glucosinolate from Leaves of Rocket Salad (<i>Eruca sativa</i> L.) and Its Antioxidative Activity. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 2444-2450.	0.6	52
24	Differential Expression of Anthocyanin Biosynthetic Genes and Anthocyanin Accumulation in Tartary Buckwheat Cultivars "Hokkai T8"™ and "Hokkai T10"™. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 2356-2361.	5.94	52
25	Accumulation of Phenylpropanoids and Correlated Gene Expression during the Development of Tartary Buckwheat Sprouts. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 5629-5635.	2.4	52
26	Enhancement of flavone levels through overexpression of chalcone isomerase in hairy root cultures of <i>Scutellaria baicalensis</i> . <i>Functional and Integrative Genomics</i> , 2011, 11, 491-496.	1.4	51
27	Accumulation of Anthocyanin and Associated Gene Expression in Radish Sprouts Exposed to Light and Methyl Jasmonate. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4127-4132.	2.4	50
28	Purple <i>Brassica oleracea</i> var. <i>capitata</i> F. <i>rubra</i> is due to the loss of BoMYBL2"1 expression. <i>BMC Plant Biology</i> , 2018, 18, 82.	1.6	45
29	A time-course study of flavonoids in the sprouts of tartary (<i>Fagopyrum tataricum</i> Gaertn.) buckweats. <i>Scientia Horticulturae</i> , 2007, 115, 13-18.	1.7	43
30	HPLC-ELSD analysis of 18 platycosides from balloon flower roots (<i>Platycodi Radix</i>) sourced from various regions in Korea and geographical clustering of the cultivation areas. <i>Food Chemistry</i> , 2011, 129, 645-651.	4.2	43
31	Functional analysis of three BrMYB28 transcription factors controlling the biosynthesis of glucosinolates in <i>Brassica rapa</i> . <i>Plant Molecular Biology</i> , 2016, 90, 503-516.	2.0	43
32	Effect of Natural Light Periods on Rutin, Free Amino Acid and Vitamin C Contents in the Sprouts of Common (<i>Fagopyrum esculentum</i> Moench) and Tartary (<i>F. tataricum</i> Gaertn.) Buckweats. <i>Food Science and Technology Research</i> , 2006, 12, 199-205.	0.3	42
33	Metabolite profiling of phenolics, anthocyanins and flavonols in cabbage (<i>Brassica oleracea</i> var.) Tj ETQq1 1 0.784314 rgBT / Qoverlock 10	2.5	40
34	Combined effect of Nitrogen, Phosphorus and Potassium fertilizers on the contents of glucosinolates in rocket salad (<i>Eruca sativa</i> Mill.). <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 436-443.	1.8	39
35	Sulfur Deficiency-Induced Glucosinolate Catabolism Attributed to Two β -Glucosidases, BGLU28 and BGLU30, is Required for Plant Growth Maintenance under Sulfur Deficiency. <i>Plant and Cell Physiology</i> , 2020, 61, 803-813.	1.5	39
36	Effect of storage temperature and duration on glucosinolate, total vitamin C and nitrate contents in rocket salad (<i>Eruca sativa</i> Mill.). <i>Journal of the Science of Food and Agriculture</i> , 2007, 87, 966-973.	1.7	38

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37	Identification and quantitative determination of glucosinolates in seeds and edible parts of Korean Chinese cabbage. <i>Food Chemistry</i> , 2011, 128, 1115-1120.	4.2	38
38	Metabolomic Analysis and Phenylpropanoid Biosynthesis in Hairy Root Culture of Tartary Buckwheat Cultivars. <i>PLoS ONE</i> , 2013, 8, e65349.	1.1	38
39	Physiological Roles of Rutin in the Buckwheat Plant. <i>Japan Agricultural Research Quarterly</i> , 2015, 49, 37-43.	0.1	37
40	Characterization of a flavonoid 3-O-glucosyltransferase and its activity during cotyledon growth in buckwheat (<i>Fagopyrum esculentum</i>). <i>Plant Science</i> , 2005, 169, 943-948.	1.7	35
41	Analysis and metabolite profiling of glucosinolates, anthocyanins and free amino acids in inbred lines of green and red cabbage (<i>Brassica oleracea</i> L.). <i>LWT - Food Science and Technology</i> , 2014, 58, 203-213.	2.5	35
42	Metabolite profiles of glucosinolates in cabbage varieties (<i>Brassica oleracea</i> var. <i>capitata</i>) by season, color, and tissue position. <i>Horticulture Environment and Biotechnology</i> , 2014, 55, 237-247.	0.7	33
43	Differentiated cuticular wax content and expression patterns of cuticular wax biosynthetic genes in bloomed and bloomless broccoli (<i>Brassica oleracea</i> var. <i>italica</i>). <i>Process Biochemistry</i> , 2015, 50, 456-462.	1.8	31
44	Metabolic profiling of pale green and purple kohlrabi (<i>Brassica oleracea</i> var. <i>gongylodes</i>). <i>Applied Biological Chemistry</i> , 2017, 60, 249-257.	0.7	31
45	Glucosinolates in vegetative tissues and seeds of twelve cultivars of vegetable turnip rape (<i>Brassica rapa</i> L.). <i>Soil Science and Plant Nutrition</i> , 2003, 49, 337-346.	0.8	30
46	Effect of ammonium:nitrate nutrient ratio on nitrate and glucosinolate contents of hydroponically-grown rocket salad (<i>Eruca sativa</i> Mill.). <i>Soil Science and Plant Nutrition</i> , 2006, 52, 387-393.	0.8	29
47	Influence of Light on the Free Amino Acid Content and δ^3 -Aminobutyric Acid Synthesis in <i>Brassica juncea</i> Seedlings. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8624-8631.	2.4	29
48	Metabolic Differentiation of Diamondback Moth (<i>Plutella xylostella</i> (L.)) Resistance in Cabbage (<i>Brassica oleracea</i> L. ssp. <i>capitata</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 11222-11230.	2.4	28
49	Metabolomic Analysis and Differential Expression of Anthocyanin Biosynthetic Genes in White- and Red-Flowered Buckwheat Cultivars (<i>Fagopyrum esculentum</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 10525-10533.	2.4	27
50	Effects of lipase, lipoxygenase, peroxidase and free fatty acids on volatile compound found in boiled buckwheat noodles. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 1232-1237.	1.7	26
51	Variation of glucoraphanin and glucobrassicin: anticancer components in <i>Brassica</i> during processing. <i>Food Science and Technology</i> , 2013, 33, 624-631.	0.8	23
52	Time Course Study and Effects of Drying Method on Concentrations of δ^3 -Aminobutyric Acid, Flavonoids, Anthocyanin, and δ^2 -Hydroxynicotianamine in Leaves of Buckweheats. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 259-264.	2.4	21
53	Oxidative Comparison of Emulsion Systems from Fish Oil-Based Structured Lipid versus Physically Blended Lipid with Purple-Fleshed Sweet Potato (<i>Ipomoea batatas</i> L.) Extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 467-475.	2.4	21
54	Red Chinese Cabbage Transcriptome Analysis Reveals Structural Genes and Multiple Transcription Factors Regulating Reddish Purple Color. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2901.	1.8	21

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55	Effect of Potato Starch Characteristics on the Textural Properties of Korean-style Cold Noodles Made from Wheat Flour and Potato Starch Blends. <i>Food Science and Technology Research</i> , 2006, 12, 278-283.	0.3	20
56	Effects of Lipase, Lipoxygenase, Peroxidase, and Rutin on Quality Deteriorations in Buckwheat Flour. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 8400-8405.	2.4	19
57	Changes in rutin concentration and flavonol-3-glucosidase activity during seedling growth in tartary buckwheat (<i>Fagopyrum tataricum</i> Gaertn.). <i>Canadian Journal of Plant Science</i> , 2007, 87, 83-87.	0.3	19
58	Spirulina consumption effectively reduces anti-inflammatory and pain related infectious diseases. <i>Journal of Infection and Public Health</i> , 2019, 12, 777-782.	1.9	19
59	Variation of major glucosinolates in different varieties and lines of rocket salad. <i>Horticulture Environment and Biotechnology</i> , 2013, 54, 206-213.	0.7	18
60	Characterization of Genes for a Putative Hydroxycinnamoyl-coenzyme A Quinate Transferase and <i>p</i> -Coumarate 3-Hydroxylase and Chlorogenic Acid Accumulation in Tartary Buckwheat. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4120-4126.	2.4	18
61	Accumulation of Phenylpropanoids and Correlated Gene Expression in Hairy Roots of Tartary Buckwheat under Light and Dark Conditions. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2537-2547.	1.4	18
62	Brassinosteroids regulate glucosinolate biosynthesis in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2018, 163, 450-458.	2.6	18
63	Yam Contributes to Improvement of Glucose Metabolism in Rats. <i>Plant Foods for Human Nutrition</i> , 2009, 64, 193-198.	1.4	17
64	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 <i>Lycium chinense</i> Plant. <i>Molecules</i> , 2014, 19, 17141-17153.	1.7	17
65	Accumulation of anthocyanin and related genes expression during the development of cabbage seedlings. <i>Process Biochemistry</i> , 2014, 49, 1084-1091.	1.8	17
66	Metabolomics of differently colored <i>Gladiolus</i> cultivars. <i>Applied Biological Chemistry</i> , 2016, 59, 597-607.	0.7	17
67	Molecular characterization of glucosinolates and carotenoid biosynthetic genes in Chinese cabbage (<i>Brassica pekinensis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10116	1.8	16
68	Structural Identification of Anthocyanins and Analysis of Concentrations during Growth and Flowering in Buckwheat (<i>Fagopyrum esculentum</i> Moench) Petals. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 9571-9575.	2.4	15
69	Effect of different proportion of sulphur treatments on the contents of glucosinolate in kale (<i>Brassica oleracea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10116 <i>Biological Sciences</i> , 2018, 25, 349-353.	1.8	15
70	Carbon Dioxide Pretreatment and Cold Storage Synergistically Delay Tomato Ripening through Transcriptional Change in Ethylene-Related Genes and Respiration-Related Metabolism. <i>Foods</i> , 2021, 10, 744.	1.9	15
71	Variation of glucosinolate accumulation and gene expression of transcription factors at different stages of Chinese cabbage seedlings under light and dark conditions. <i>Natural Product Communications</i> , 2014, 9, 533-7.	0.2	15
72	Purple potato flake reduces serum lipid profile in rats fed a cholesterol-rich diet. <i>Journal of Functional Foods</i> , 2013, 5, 974-980.	1.6	14

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73	Glucosinolate Distribution in the Aerial Parts of sel1-10, a Disruption Mutant of the Sulfate Transporter SULTR1;2, in Mature Arabidopsis thaliana Plants. <i>Plants</i> , 2019, 8, 95.	1.6	14
74	Antioxidative Activities of <i>Ginkgo biloba</i> Extract on Oil/Water Emulsion System Prepared from an Enzymatically Modified Lipid Containing Alpha-Linolenic Acid. <i>Journal of Food Science</i> , 2013, 78, C43-9.	1.5	12
75	Inhibitory effects of mulberry fruit extract in combination with naringinase on the allergic response in IgE-activated RBL-2H3 cells. <i>International Journal of Molecular Medicine</i> , 2014, 33, 469-477.	1.8	12
76	Ethephon-induced phenylpropanoid accumulation and related gene expression in tartary buckwheat (<i>Fagopyrum tataricum</i> (L.) Gaertn.) hairy root. <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 304-311.	0.5	12
77	Effect of Cold Storage on the Contents of Glucosinolates in Chinese Cabbage (<i>Brassica rapa</i> L.) Tj ETQq1 1 0,784314 ggBT /Ovord	0.9	12
78	Variation of Glucosinolate Accumulation and Gene Expression of Transcription Factors at Different Stages of Chinese Cabbage Seedlings under Light and Dark Conditions. <i>Natural Product Communications</i> , 2014, 9, 1934578X1400900.	0.2	11
79	Glucosinolate biosynthesis in hairy root cultures of broccoli (<i>Brassica oleracea</i> var. <i>italica</i>). <i>Natural Product Communications</i> , 2013, 8, 217-20.	0.2	11
80	Involvement of BGLU30 in Glucosinolate Catabolism in the Arabidopsis Leaf under Dark Conditions. <i>Plant and Cell Physiology</i> , 2020, 61, 1095-1106.	1.5	8
81	Effect of Developmental Stages on Glucosinolate Contents in Kale (<i>Brassica oleracea</i> var. <i>acephala</i>). <i>Horticultural Science and Technology</i> , 2015, 33, 177-185.	0.9	8
82	Identification and Quantification of Volatile and Phenolic Compounds Composition in Buckwheat Sprouts by GC/MS and HPLC. <i>Asian Journal of Chemistry</i> , 2014, 26, 777-782.	0.1	7
83	Glucosinolate Biosynthesis in Hairy Root Cultures of Broccoli (<i>Brassica oleracea</i> var. <i>italica</i>). <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.2	6
84	Transcripts of Anthocyanidin Reductase and Leucoanthocyanidin Reductase and Measurement of Catechin and Epicatechin in Tartary Buckwheat. <i>Scientific World Journal</i> , The, 2014, 2014, 1-10.	0.8	6
85	Variation of glucosinolates on position orders of flower buds in turnip rape (<i>Brassica rapa</i>). <i>Saudi Journal of Biological Sciences</i> , 2017, 24, 1562-1566.	1.8	6
86	Variation of Functional Compounds in Leafy Chinese Cabbage Grown Under Different Light Conditions in a Plant Factory. <i>Korean Journal of Food Science and Technology</i> , 2014, 46, 526-529.	0.0	6
87	Isolation and identification of alkaloids and anthocyanins from flower and bulb of <i>Lycoris radiata</i> using HPLC and LC-ESI-MS. <i>Journal of Agricultural Chemistry and Environment</i> , 2013, 02, 22-26.	0.2	5
88	Comparison of Flavonoid Contents between Common and Tartary Buckwheat (<i>Fagopyrum</i>) Sprouts Cultured with/without Soil. <i>Asian Journal of Chemistry</i> , 2014, 26, 5985-5990.	0.1	4
89	Estimation of functional components of Chinese cabbage leaves grown in a plant factory using diffuse reflectance spectroscopy. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 711-718.	1.7	4
90	Location and Number of Sampling for Optical Reflectance Measurement of Chinese Cabbage and Kale Leaves. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 241-246.	0.4	3

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91	Accumulation of Free Amino Acids in Different Organs of Green and Red Mustard Cultivars. Asian Journal of Chemistry, 2014, 26, 396-398.	0.1	3
92	Oxygen plasma modulates glucosinolate levels without affecting lipid contents and composition in Brassica napus seeds. Bioscience, Biotechnology and Biochemistry, 2021, 85, 2434-2441.	0.6	3
93	Location of Sampling Points in Optical Reflectance Measurements of Chinese Cabbage and Kale Leaves. Journal of Biosystems Engineering, 2015, 40, 115-123.	1.2	3
94	Comparison of optical reflectance spectrum at blade and vein parts of cabbage and kale leaves. Korean Journal of Agricultural Science, 2013, 40, 163-167.	0.2	3
95	Resveratrol Production from Hairy Root Cultures of Scutellaria baicalensis. Natural Product Communications, 2013, 8, 1934578X1300800.	0.2	2
96	Chungpilhongsim radish (Raphanus sativus L. cv. Chungpilhongsim) ameliorates ethanol-induced gastric injury in rats. Oriental Pharmacy and Experimental Medicine, 2016, 16, 37-43.	1.2	2
97	Effect of 1-methylcyclopropene Treatment on Extension of Freshness and Storage Potential of Fresh Ginseng. Horticultural Science and Technology, 2013, 31, 308-316.	0.9	2
98	Free Amino Acids in Different Organs of Scutellaria baicalensis. Asian Journal of Chemistry, 2014, 26, 1910-1912.	0.1	1
99	Determination of the sample number for optical reflectance measurement of vegetable leaf. Computers and Electronics in Agriculture, 2015, 112, 110-115.	3.7	1
100	Influence of Auxins and Wounding on Glucosinolate Biosynthesis in Hairy Root Cultures of Chinese Cabbage (Brassica rapa ssp. pekinensis). Biosciences, Biotechnology Research Asia, 2015, 12, 1041-1046.	0.2	1
101	Cloning and Characterization of a cDNA Encoding Calcium/Calmodulin-Dependent Glutamate Decarboxylase from Scutellaria Baicalensis. Natural Product Communications, 2013, 8, 1934578X1300800.	0.2	0