

# Hikaru Matsumoto

## List of Publications by Citations

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50  
papers

2,097  
citations

27  
h-index

45  
g-index

53  
ext. papers

2,335  
ext. citations

4.1  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
50	Accumulation of carotenoids and expression of carotenoid biosynthetic genes during maturation in citrus fruit. <i>Plant Physiology</i> , <b>2004</b> , 134, 824-37	6.6	353
49	The role of carotenoid cleavage dioxygenases in the regulation of carotenoid profiles during maturation in citrus fruit. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 2153-64	7	134
48	Bioavailability and metabolism of orange juice flavanones in humans: impact of a full-fat yogurt. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 11157-64	5.7	127
47	Identification and quantification of the conjugated metabolites derived from orally administered hesperidin in rat plasma. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 6653-9	5.7	104
46	Quantification of carotenoids in citrus fruit by LC-MS and comparison of patterns of seasonal changes for carotenoids among citrus varieties. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 2356-68	5.7	93
45	Regulation of carotenoid accumulation and the expression of carotenoid metabolic genes in citrus juice sacs in vitro. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 871-86	7	88
44	Effect of blue and red LED light irradiation on $\beta$ -cryptoxanthin accumulation in the flavedo of citrus fruits. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 197-201	5.7	86
43	Effect of postharvest temperature and ethylene on carotenoid accumulation in the Flavedo and juice sacs of Satsuma Mandarin ( Citrus unshiu Marc.) fruit. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 4724-32	5.7	77
42	The homeostasis model assessment-insulin resistance index is inversely associated with serum carotenoids in non-diabetic subjects. <i>Journal of Epidemiology</i> , <b>2006</b> , 16, 71-8	3.4	72
41	Quantitation of Carotenoids in Raw and Processed Fruits in Japan. <i>Food Science and Technology Research</i> , <b>2005</b> , 11, 13-18	0.8	68
40	High serum carotenoids are inversely associated with serum gamma-glutamyltransferase in alcohol drinkers within normal liver function. <i>Journal of Epidemiology</i> , <b>2005</b> , 15, 180-6	3.4	60
39	Associations of serum carotenoid concentrations with the metabolic syndrome: interaction with smoking. <i>British Journal of Nutrition</i> , <b>2008</b> , 100, 1297-306	3.6	50
38	Effect of the combination of ethylene and red LED light irradiation on carotenoid accumulation and carotenogenic gene expression in the flavedo of citrus fruit. <i>Postharvest Biology and Technology</i> , <b>2015</b> , 99, 99-104	6.2	46
37	Small dipeptide-based HIV protease inhibitors containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. <i>Biopolymers</i> , <b>1999</b> , 51, 59-68	2.2	45
36	Water-soluble prodrugs of dipeptide HIV protease inhibitors based on O $\rightarrow$ N intramolecular acyl migration: Design, synthesis and kinetic study. <i>Bioorganic and Medicinal Chemistry</i> , <b>2004</b> , 12, 159-70	3.4	38
35	Serum Concentration of $\beta$ -Cryptoxanthin in Japan Reflects the Frequency of Satsuma Mandarin (Citrus unshiu Marc.) Consumption.. <i>Journal of Health Science</i> , <b>2002</b> , 48, 350-353		38
34	Effect of blue LED light intensity on carotenoid accumulation in citrus juice sacs. <i>Journal of Plant Physiology</i> , <b>2015</b> , 188, 58-63	3.6	36

33	Diversity in the carotenoid profiles and the expression of genes related to carotenoid accumulation among citrus genotypes. <i>Breeding Science</i> , <b>2016</b> , 66, 139-47	2	36
32	Synergistic interaction of cigarette smoking and alcohol drinking with serum carotenoid concentrations: findings from a middle-aged Japanese population. <i>British Journal of Nutrition</i> , <b>2009</b> , 102, 1211-9	3.6	35
31	Regulation of ascorbic acid metabolism by blue LED light irradiation in citrus juice sacs. <i>Plant Science</i> , <b>2015</b> , 233, 134-142	5.3	33
30	Development of water-soluble prodrugs of the HIV-1 protease inhibitor KNI-727: importance of the conversion time for higher gastrointestinal absorption of prodrugs based on spontaneous chemical cleavage. <i>Journal of Medicinal Chemistry</i> , <b>2003</b> , 46, 4124-35	8.3	33
29	Expression and functional analysis of two lycopene cyclases from citrus fruits. <i>Planta</i> , <b>2012</b> , 236, 1315-24	7.7	29
28	KNI-577, a potent small-sized HIV protease inhibitor based on the dipeptide containing the hydroxymethylcarbonyl isostere as an ideal transition-state mimic. <i>Archiv Der Pharmazie</i> , <b>1998</b> , 331, 87-94	4.3	29
27	Accumulation of Carotenoids and Expression of Carotenoid Biosynthetic Genes and Carotenoid Cleavage Dioxygenase Genes during Fruit Maturation in the Juice Sacs of Tamami, Miyomi Tangor, and Wilking Mandarin. <i>Journal of the Japanese Society for Horticultural Science</i> , <b>2007</b> , 76, 103-111		28
26	Serum carotenoid concentrations are inversely associated with serum aminotransferases in hyperglycemic subjects. <i>Diabetes Research and Clinical Practice</i> , <b>2006</b> , 71, 82-91	7.4	28
25	Design, synthesis, and biological evaluation of anti-HIV double-drugs. conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor through spontaneously cleavable linkers. <i>Bioorganic and Medicinal Chemistry</i> , <b>2001</b> , 9, 1589-600	3.4	28
24	'Double-Drugs'--a new class of prodrug form of an HIV protease inhibitor conjugated with a reverse transcriptase inhibitor by a spontaneously cleavable linker. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2000</b> , 10, 1227-31	2.9	28
23	Effect of the acyl groups on O-->N acyl migration in the water-soluble prodrugs of HIV-1 protease inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2003</b> , 13, 2727-30	2.9	25
22	Controlled drug release: new water-soluble prodrugs of an HIV protease inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2001</b> , 11, 605-9	2.9	25
21	Effect of different postharvest temperatures on the accumulation of sugars, organic acids, and amino acids in the juice sacs of Satsuma mandarin (Citrus unshiu Marc.) fruit. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 9900-9	5.7	24
20	Effect of 1-methylcyclopropene on the expression of genes for ascorbate metabolism in postharvest broccoli. <i>Postharvest Biology and Technology</i> , <b>2010</b> , 58, 121-128	6.2	23
19	Effect of postharvest temperature on the muscat flavor and aroma volatile content in the berries of Rhine Muscat (Vitis labruscana Baily V. vinifera L.). <i>Postharvest Biology and Technology</i> , <b>2016</b> , 112, 256-265	6.2	21
18	Effect of electrostatic atomization on ascorbate metabolism in postharvest broccoli. <i>Postharvest Biology and Technology</i> , <b>2012</b> , 74, 19-25	6.2	20
17	Quantitative Trait Loci (QTL) Analysis of Carotenoid Content in Citrus Fruit. <i>Japanese Society for Horticultural Science</i> , <b>2011</b> , 80, 136-144		20
16	Small-sized human immunodeficiency virus type-1 protease inhibitors containing allophenylnorstatine to explore the S2' pocket. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 7604-17	8.3	19

15	A new class of anti-HIV agents: synthesis and activity of conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1999</b> , 9, 803-6	2.9	19
14	Synthesis and biological evaluation of prodrug-type anti-HIV agents: ester conjugates of carboxylic acid-containing dipeptide HIV protease inhibitors and a reverse transcriptase inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , <b>2001</b> , 9, 417-30	3.4	18
13	Abscisic acid affects expression of citrus FT homologs upon floral induction by low temperature in Satsuma mandarin (Citrus unshiu Marc.). <i>Tree Physiology</i> , <b>2018</b> , 38, 755-771	4.2	16
12	Design of small peptidomimetic HIV-1 protease inhibitors and prodrug forms. <i>International Journal of Peptide Research and Therapeutics</i> , <b>1999</b> , 6, 275-281		11
11	The Characteristics of Carotenoid Biosynthesis in Citrus Fruit. <i>Japan Agricultural Research Quarterly</i> , <b>2014</b> , 48, 9-16	0.5	7
10	Exogenous Application of ABA and NAA Alleviates the Delayed Coloring Caused by Puffing Inhibitor in Citrus Fruit. <i>Cells</i> , <b>2021</b> , 10,	7.9	7
9	Cross-Sectional Analysis of Satsuma mandarin (Citrus unshiu Marc.) Consumption and Health Status Based on a Self-Administered Questionnaires.. <i>Journal of Health Science</i> , <b>2002</b> , 48, 366-369		6
8	The Effect of Fruit Bearing on Low-molecular-weight Metabolites in Stems of Satsuma Mandarin (Citrus unshiu Marc.). <i>Horticulture Journal</i> , <b>2016</b> , 85, 23-29	1.1	5
7	Effect of Maturation Stage and Storage Temperature and Duration on $\beta$ Cryptoxanthin Content in Satsuma Mandarin (Citrus unshiu Marc.) Fruit. <i>Horticulture Journal</i> , <b>2019</b> , 88, 214-221	1.1	3
6	Effect of 1-Methylcyclopropene on the Expression of Genes for Ascorbate Metabolism in Postharvest Cauliflower. <i>Japanese Society for Horticultural Science</i> , <b>2011</b> , 80, 512-520		3
5	Effect of Enzymatic Peeling Process Temperature on the Sensory Properties and Chemical Composition of Satsuma Mandarin Fruit. <i>Journal of the Japanese Society for Food Science and Technology</i> , <b>2015</b> , 62, 402-408	0.2	1
4	Design of small peptidomimetic HIV-1 protease inhibitors and prodrug forms. <i>International Journal of Peptide Research and Therapeutics</i> , <b>1999</b> , 6, 275-281		1
3	Auxin induced carotenoid accumulation in GA and PDJ-treated citrus fruit after harvest. <i>Postharvest Biology and Technology</i> , <b>2021</b> , 181, 111676	6.2	1
2	Prodrug Forms of Peptidomimetic HIV Protease Inhibitors Using Intramolecular Cyclization Reaction <b>2001</b> , 650-651		
1	Comparison of Carotenoid Accumulation and Abscisic Acid Content in Fruit-color Altered Mutant and Original Types in Citrus. <i>Japan Agricultural Research Quarterly</i> , <b>2021</b> , 55, 359-366	0.5	