## Ryo Nakabayashi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

4,379
citations

31
h-index

91
ext. papers

5,656
ext. citations

31
b-index

5.8
avg, IF

L-index

#	Paper	IF	Citations
86	Sample Preparation, Data Acquisition, and Data Analysis for 15N-Labeled and Nonlabeled Monoterpene Indole Alkaloids in Catharanthus roseus. <i>Methods in Molecular Biology</i> , <b>2022</b> , 59-68	1.4	
85	Seed-coat protective neolignans are produced by the dirigent protein AtDP1 and the laccase AtLAC5 in Arabidopsis. <i>Plant Cell</i> , <b>2021</b> , 33, 129-152	11.6	5
84	Retrograde sulfur flow from glucosinolates to cysteine in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	13
83	Tandem Mass Spectrum Similarity-Based Network Analysis Using C-Labeled and Non-labeled Metabolome Data to Identify the Biosynthetic Pathway of the Blood Pressure-Lowering Asparagus Metabolite Asparaptine A. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 8571-8577	5.7	1
82	Chromosome-level genome assembly of Ophiorrhiza pumila reveals the evolution of camptothecin biosynthesis. <i>Nature Communications</i> , <b>2021</b> , 12, 405	17.4	24
81	Stochastic estimation of radionuclide composition in wastes generated at Fukushima Daiichi nuclear power station using Bayesian inference. <i>Journal of Nuclear Science and Technology</i> , <b>2021</b> , 58, 493-506	1	1
80	Food Lipidomics for 155 Agricultural Plant Products. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 8981-8990	5.7	11
79	A multimodal metabolomics approach using imaging mass spectrometry and liquid chromatography-tandem mass spectrometry for spatially characterizing monoterpene indole alkaloids secreted from roots. <i>Plant Biotechnology</i> , <b>2021</b> , 38, 305-310	1.3	1
78	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine A in. <i>Plant Biotechnology</i> , <b>2021</b> , 38, 311-315	1.3	O
77	Metabolomics and complementary techniques to investigate the plant phytochemical cosmos. <i>Natural Product Reports</i> , <b>2021</b> , 38, 1729-1759	15.1	7
76	Higher dimensional metabolomics using stable isotope labeling for identifying the missing specialized metabolism in plants. <i>Current Opinion in Plant Biology</i> , <b>2020</b> , 55, 84-92	9.9	8
75	Multiomics-based characterization of specialized metabolites biosynthesis in Cornus Officinalis. <i>DNA Research</i> , <b>2020</b> , 27,	4.5	6
74	Comparative Metabolome and Transcriptome Analyses of Susceptible Asparagus officinalis and Resistant Wild A. kiusianus Reveal Insights into Stem Blight Disease Resistance. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1464-1476	4.9	4
73	Metabolomic Determination of Specialized Metabolites Using Liquid Chromatography-Tandem Mass Spectrometry in the Traditional Chinese Medicines Astragali Radix and Hedysari Radix. <i>Natural Product Communications</i> , <b>2020</b> , 15, 1934578X1990119	0.9	1
7 <sup>2</sup>	Metabolomics with N Labeling for Characterizing Missing Monoterpene Indole Alkaloids in Plants. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5670-5675	7.8	14
71	Top-Down Metabolomics Approaches: Nitrogen- and Sulfur-Omics by Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance-Mass Spectrometry <b>2020</b> , 138-155		
70	Phytochemical map leads to local omics world. <i>Plant Morphology</i> , <b>2020</b> , 32, 31-37	Ο	

69	The Structural Integrity of Lignin Is Crucial for Resistance against Parasitism in Rice. <i>Plant Physiology</i> , <b>2019</b> , 179, 1796-1809	6.6	32
68	A cheminformatics approach to characterize metabolomes in stable-isotope-labeled organisms.  Nature Methods, <b>2019</b> , 16, 295-298	21.6	99
67	Development of calculation methodology for estimation of radionuclide composition in wastes generated at Fukushima Daiichi nuclear power station. <i>Journal of Nuclear Science and Technology</i> , <b>2019</b> , 56, 881-890	1	3
66	New otonecine-type pyrrolizidine alkaloid from Petasites japonicus. <i>Journal of Natural Medicines</i> , <b>2019</b> , 73, 602-607	3.3	7
65	Keeping the shape of plant tissue for visualizing metabolite features in segmentation and correlation analysis of imaging mass spectrometry in Asparagus officinalis. <i>Metabolomics</i> , <b>2019</b> , 15, 24	4.7	18
64	The Origin and Evolution of Plant Flavonoid Metabolism. Frontiers in Plant Science, 2019, 10, 943	6.2	126
63	Producing the sulfur-containing metabolite asparaptine in calluses and a suspension cell line. <i>Plant Biotechnology</i> , <b>2019</b> , 36, 265-267	1.3	4
62	UGT79B31 is responsible for the final modification step of pollen-specific flavonoid biosynthesis in Petunia hybrida. <i>Planta</i> , <b>2018</b> , 247, 779-790	4.7	11
61	Metabolomic Evaluation of the Quality of Leaf Lettuce Grown in Practical Plant Factory to Capture Metabolite Signature. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 665	6.2	18
60	Methodology to optimize radiation protection in radioactive waste disposal after closure of a disposal facility based on probabilistic approach. <i>Journal of Nuclear Science and Technology</i> , <b>2018</b> , 55, 335-347	1	3
59	Identification of chemical form of stable carbon released from type 304L and 316L stainless-steel powders in alkaline and acidic solutions under low-oxygen conditions. <i>Radiocarbon</i> , <b>2018</b> , 60, 1691-1710	) <sup>4.6</sup>	
58	Metabolic Reprogramming in Leaf Lettuce Grown Under Different Light Quality and Intensity Conditions Using Narrow-Band LEDs. <i>Scientific Reports</i> , <b>2018</b> , 8, 7914	4.9	43
57	Biosynthesis of riccionidins and marchantins is regulated by R2R3-MYB transcription factors in Marchantia polymorpha. <i>Journal of Plant Research</i> , <b>2018</b> , 131, 849-864	2.6	22
56	Top-down Metabolomic Approaches for Nitrogen-Containing Metabolites. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2698-2703	7.8	19
55	A Highly Specific Genome-Wide Association Study Integrated with Transcriptome Data Reveals the Contribution of Copy Number Variations to Specialized Metabolites in Arabidopsis thaliana Accessions. <i>Molecular Biology and Evolution</i> , <b>2017</b> , 34, 3111-3122	8.3	5
54	Temporal lag between gene expression and metabolite accumulation in flavonol biosynthesis of Arabidopsis roots. <i>Phytochemistry Letters</i> , <b>2017</b> , 22, 44-48	1.9	4
53	Identification of Chemical Form of Carbon Released from SUS304 and SUS316 in Alkaline Solution under Low-oxygen Condition. <i>MRS Advances</i> , <b>2017</b> , 2, 597-602	0.7	2
52	Ultrahigh resolution metabolomics for S-containing metabolites. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 43, 8-16	11.4	25

51	Effects of Combined Low Glutathione with Mild Oxidative and Low Phosphorus Stress on the Metabolism of. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1464	6.2	11
50	Transgenic rice seed expressing flavonoid biosynthetic genes accumulate glycosylated and/or acylated flavonoids in protein bodies. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 95-106	7	20
49	Cloning and characterization of soybean gene Fg1 encoding flavonol 3-O-glucoside/galactoside (1- <b>6</b> ) glucosyltransferase. <i>Plant Molecular Biology</i> , <b>2016</b> , 92, 445-456	4.6	14
48	Metabolome Analysis of Oryza sativa (Rice) Using Liquid Chromatography-Mass Spectrometry for Characterizing Organ Specificity of Flavonoids with Anti-inflammatory and Anti-oxidant Activity.  Chemical and Pharmaceutical Bulletin, 2016, 64, 952-6	1.9	12
47	Hydrogen Rearrangement Rules: Computational MS/MS Fragmentation and Structure Elucidation Using MS-FINDER Software. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7946-58	7.8	292
46	Changes in trans-S-1-Propenyl-l-cysteine Sulfoxide and Related Sulfur-Containing Amino Acids during Onion Storage. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 9063-9071	5.7	4
45	Development of methodology of probabilistic safety assessment for radioactive waste disposal in consideration of epistemic uncertainty and aleatory uncertainty. <i>Journal of Nuclear Science and Technology</i> , <b>2016</b> , 53, 2006-2017	1	5
44	Chemical Assignment of Structural Isomers of Sulfur-Containing Metabolites in Garlic by Liquid Chromatography-Fourier Transform Ion Cyclotron Resonance-Mass Spectrometry. <i>Journal of Nutrition</i> , <b>2016</b> , 146, 397S-402S	4.1	24
43	Mutations in jasmonoyl-L-isoleucine-12-hydroxylases suppress multiple JA-dependent wound responses in Arabidopsis thaliana. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 1396-1408	5	24
42	Expression and functional analyses of a putative phenylcoumaran benzylic ether reductase in Arabidopsis thaliana. <i>Plant Cell Reports</i> , <b>2016</b> , 35, 513-26	5.1	9
41	Function of AP2/ERF Transcription Factors Involved in the Regulation of Specialized Metabolism in Revealed by Transcriptomics and Metabolomics. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1861	6.2	36
40	Improvement of memory recall by quercetin in rodent contextual fear conditioning and human early-stage AlzheimerS disease patients. <i>NeuroReport</i> , <b>2016</b> , 27, 671-6	1.7	23
39	Automation of chemical assignment for identifying molecular formula of S-containing metabolites by combining metabolomics and chemoinformatics with 34S labeling. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	8
38	Characterization of a recently evolved flavonol-phenylacyltransferase gene provides signatures of natural light selection in Brassicaceae. <i>Nature Communications</i> , <b>2016</b> , 7, 12399	17.4	90
37	Jasmonate-Responsive ERF Transcription Factors Regulate Steroidal Glycoalkaloid Biosynthesis in Tomato. <i>Plant and Cell Physiology</i> , <b>2016</b> , 57, 961-75	4.9	81
36	Top-down Targeted Metabolomics Reveals a Sulfur-Containing Metabolite with Inhibitory Activity against Angiotensin-Converting Enzyme in Asparagus officinalis. <i>Journal of Natural Products</i> , <b>2015</b> , 78, 1179-83	4.9	37
35	Multiomics in grape berry skin revealed specific induction of the stilbene synthetic pathway by ultraviolet-C irradiation. <i>Plant Physiology</i> , <b>2015</b> , 168, 47-59	6.6	51
34	Integrating transcriptome and target metabolome variability in doubled haploids of Allium cepa for abiotic stress protection. <i>Molecular Breeding</i> , <b>2015</b> , 35, 1	3.4	40

33	Linkage mapping, molecular cloning and functional analysis of soybean gene Fg3 encoding flavonol 3-O-glucoside/galactoside (1 -�) glucosyltransferase. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 126	5.3	15
32	Metabolome-genome-wide association study dissects genetic architecture for generating natural variation in rice secondary metabolism. <i>Plant Journal</i> , <b>2015</b> , 81, 13-23	6.9	114
31	Identification of a flavin-containing S-oxygenating monooxygenase involved in alliin biosynthesis in garlic. <i>Plant Journal</i> , <b>2015</b> , 83, 941-51	6.9	37
30	Metabolic Profiling of Developing Pear Fruits Reveals Dynamic Variation in Primary and Secondary Metabolites, Including Plant Hormones. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131408	3.7	49
29	Boosting Sensitivity in Liquid Chromatography-Fourier Transform Ion Cyclotron Resonance-Tandem Mass Spectrometry for Product Ion Analysis of Monoterpene Indole Alkaloids. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1127	6.2	6
28	The metabolic profile of grape berry skin and a comparison of metabolomes before veraison and at harvest. <i>Plant Biotechnology</i> , <b>2015</b> , 32, 267-272	1.3	4
27	Using metabolomic approaches to explore chemical diversity in rice. <i>Molecular Plant</i> , <b>2015</b> , 8, 58-67	14.4	82
26	Integrated metabolomics for abiotic stress responses in plants. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 24, 10-6	9.9	198
25	Assessing metabolomic and chemical diversity of a soybean lineage representing 35 years of breeding. <i>Metabolomics</i> , <b>2015</b> , 11, 261-270	4.7	37
24	Direct isolation of flavonoids from plants using ultra-small anatase TiOIhanoparticles. <i>Plant Journal</i> , <b>2014</b> , 77, 443-53	6.9	43
23	Linkage mapping, molecular cloning and functional analysis of soybean gene Fg2 encoding flavonol 3-O-glucoside (1日春) rhamnosyltransferase. <i>Plant Molecular Biology</i> , <b>2014</b> , 84, 287-300	4.6	28
22	Using metabolomic approaches to explore chemical diversity in rice. <i>Molecular Plant</i> , <b>2014</b> ,	14.4	3
21	A flavonoid 3-O-glucoside:2"-O-glucosyltransferase responsible for terminal modification of pollen-specific flavonols in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2014</b> , 79, 769-82	6.9	65
20	Successful expression of a novel bacterial gene for pinoresinol reductase and its effect on lignan biosynthesis in transgenic Arabidopsis thaliana. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 8165-	- <b>57</b> 7	8
19	Revisiting anabasine biosynthesis in tobacco hairy roots expressing plant lysine decarboxylase gene by using 15N-labeled lysine. <i>Plant Biotechnology</i> , <b>2014</b> , 31, 511-518	1.3	13
18	Alternation of flavonoid accumulation under drought stress in Arabidopsis thaliana. <i>Plant Signaling and Behavior</i> , <b>2014</b> , 9, e29518	2.5	78
17	Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids. <i>Plant Journal</i> , <b>2014</b> , 77, 367-79	6.9	573
16	Toward better annotation in plant metabolomics: isolation and structure elucidation of 36 specialized metabolites from (rice) by using MS/MS and NMR analyses. <i>Metabolomics</i> , <b>2014</b> , 10, 543-555	; 4.7	60

15	Coupling deep transcriptome analysis with untargeted metabolic profiling in Ophiorrhiza pumila to further the understanding of the biosynthesis of the anti-cancer alkaloid camptothecin and anthraquinones. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 686-96	4.9	67
14	The flavonoid biosynthetic pathway in Arabidopsis: structural and genetic diversity. <i>Plant Physiology and Biochemistry</i> , <b>2013</b> , 72, 21-34	5.4	440
13	Metabolomics for unknown plant metabolites. Analytical and Bioanalytical Chemistry, 2013, 405, 5005-1	14.4	75
12	Combination of liquid chromatography-Fourier transform ion cyclotron resonance-mass spectrometry with 13C-labeling for chemical assignment of sulfur-containing metabolites in onion bulbs. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 1310-5	7.8	68
11	Inhibition of CUTIN DEFICIENT 2 Causes Defects in Cuticle Function and Structure and Metabolite Changes in Tomato Fruit. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 1535-48	4.9	21
10	Dissection of genotype-phenotype associations in rice grains using metabolome quantitative trait loci analysis. <i>Plant Journal</i> , <b>2012</b> , 70, 624-36	6.9	155
9	RIKEN tandem mass spectral database (ReSpect) for phytochemicals: a plant-specific MS/MS-based data resource and database. <i>Phytochemistry</i> , <b>2012</b> , 82, 38-45	4	214
8	Changes in primary and secondary metabolite levels in response to gene targeting-mediated site-directed mutagenesis of the anthranilate synthase gene in rice. <i>Metabolites</i> , <b>2012</b> , 2, 1123-38	5.6	3
7	Two glycosyltransferases involved in anthocyanin modification delineated by transcriptome independent component analysis in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2012</b> , 69, 154-67	6.9	124
6	Mass spectra-based framework for automated structural elucidation of metabolome data to explore phytochemical diversity. <i>Frontiers in Plant Science</i> , <b>2011</b> , 2, 40	6.2	25
5	Effects of freeze-drying of samples on metabolite levels in metabolome analyses. <i>Journal of Separation Science</i> , <b>2011</b> , 34, 3561-7	3.4	27
4	A polyhedral approach for understanding flavonoid biosynthesis in Arabidopsis. <i>New Biotechnology</i> , <b>2010</b> , 27, 829-36	6.4	12
3	Metabolomics-oriented isolation and structure elucidation of 37 compounds including two anthocyanins from Arabidopsis thaliana. <i>Phytochemistry</i> , <b>2009</b> , 70, 1017-29	4	105
2	Comprehensive flavonol profiling and transcriptome coexpression analysis leading to decoding gene-metabolite correlations in Arabidopsis. <i>Plant Cell</i> , <b>2008</b> , 20, 2160-76	11.6	308
1	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine in Asparagus officinalis		1