

Masaru Nakayasu

List of Publications by Year in descending order

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18
papers

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#	ARTICLE	IF	CITATIONS
1	Generation of $\hat{1}\pm$ -solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. <i>Plant Physiology and Biochemistry</i> , 2018, 131, 70-77.	2.8	150
2	<scp>JRE</scp>4 is a master transcriptional regulator of defense-related steroidal glycoalkaloids in tomato. <i>Plant Journal</i> , 2018, 94, 975-990.	2.8	73
3	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. <i>Plant Physiology</i> , 2016, 171, 2458-2467.	2.3	67
4	Rhizosphere modelling reveals spatiotemporal distribution of daidzein shaping soybean rhizosphere bacterial community. <i>Plant, Cell and Environment</i> , 2020, 43, 1036-1046.	2.8	63
5	A Dioxygenase Catalyzes Steroid $16\hat{1}\pm$ -Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. <i>Plant Physiology</i> , 2017, 175, 120-133.	2.3	52
6	Tomato roots secrete tomatine to modulate the bacterial assemblage of the rhizosphere. <i>Plant Physiology</i> , 2021, 186, 270-284.	2.3	45
7	Identification of a $3\hat{1}^2$ -Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in $\hat{1}\pm$ -Tomatine Biosynthesis in Tomato. <i>Plant and Cell Physiology</i> , 2019, 60, 1304-1315.	1.5	33
8	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , 2019, 36, 167-173.	0.5	32
9	Identification of $\hat{1}\pm$ -Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. <i>Plant and Cell Physiology</i> , 2020, 61, 21-28.	1.5	29
10	The biosynthetic pathway of potato solanidanes diverged from that of spirosolanes due to evolution of a dioxygenase. <i>Nature Communications</i> , 2021, 12, 1300.	5.8	25
11	Characterization of steroid $5\hat{1}\pm$ -reductase involved in $\hat{1}\pm$ -tomatine biosynthesis in tomatoes. <i>Plant Biotechnology</i> , 2019, 36, 253-263.	0.5	22
12	Identification of furostanol glycoside 26- $\hat{1}\pm$ -glucosidase involved in steroidal saponin biosynthesis from <i>Dioscorea esculenta</i> . <i>Plant Biotechnology</i> , 2015, 32, 299-308.	0.5	15
13	Parallel evolution of UbiA superfamily proteins into aromatic <i>O</i> -prenyltransferases in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
14	Tomato <i>E8</i> Encodes a C-27 Hydroxylase in Metabolic Detoxification of $\hat{1}\pm$ -Tomatine during Fruit Ripening. <i>Plant and Cell Physiology</i> , 2021, 62, 775-783.	1.5	14
15	Triterpenoid and Steroidal Saponins Differentially Influence Soil Bacterial Genera. <i>Plants</i> , 2021, 10, 2189.	1.6	12
16	Characterization of C $\hat{2}6$ aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. <i>Plant Journal</i> , 2021, 108, 81-92.	2.8	7
17	Tandem Gene Duplication of Dioxygenases Drives the Structural Diversity of Steroidal Glycoalkaloids in the Tomato Clade. <i>Plant and Cell Physiology</i> , 2022, 63, 981-990.	1.5	5
18	Two Distinct Soil Disinfestations Differently Modify the Bacterial Communities in a Tomato Field. <i>Agronomy</i> , 2021, 11, 1375.	1.3	4