

# Hirofumi Ishihara

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

2,842  
citations

516710

16  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

4104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon flux through photosynthesis and central carbon metabolism show distinct patterns between algae, C3 and C4 plants. <i>Nature Plants</i> , 2022, 8, 78-91.	9.3	49
2	Rising rates of starch degradation during daytime and trehalose 6-phosphate optimize carbon availability. <i>Plant Physiology</i> , 2022, 189, 1976-2000.	4.8	18
3	Sucrose synthases are not involved in starch synthesis in <i>Arabidopsis</i> leaves. <i>Nature Plants</i> , 2022, 8, 574-582.	9.3	21
4	Point mutations that boost aromatic amino acid production and CO <sub>2</sub> assimilation in plants. <i>Science Advances</i> , 2022, 8, .	10.3	7
5	<sup>13</sup> C <sub>2</sub> labeling kinetics in maize reveal impaired efficiency of C4 photosynthesis under low irradiance. <i>Plant Physiology</i> , 2022, 190, 280-304.	4.8	11
6	Installation of C <sub>4</sub> photosynthetic pathway enzymes in rice using a single construct. <i>Plant Biotechnology Journal</i> , 2021, 19, 575-588.	8.3	78
7	Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant biomass. <i>Journal of Experimental Botany</i> , 2021, 72, 3263-3278.	4.8	6
8	Assessing Protein Synthesis and Degradation Rates in <i>Arabidopsis thaliana</i> Using Amino Acid Analysis. <i>Current Protocols</i> , 2021, 1, e114.	2.9	2
9	Leaf chlorosis in <i>Arabidopsis thaliana</i> hybrids is associated with transgenerational decline and imbalanced ribosome number. <i>New Phytologist</i> , 2020, 228, 989-1000.	7.3	4
10	Growth rate correlates negatively with protein turnover in <i>Arabidopsis</i> accessions. <i>Plant Journal</i> , 2017, 91, 416-429.	5.7	58
11	Leaf Starch Turnover Occurs in Long Days and in Falling Light at the End of the Day. <i>Plant Physiology</i> , 2017, 174, 2199-2212.	4.8	80
12	Trehalose 6-phosphate coordinates organic and amino acid metabolism with carbon availability. <i>Plant Journal</i> , 2016, 85, 410-423.	5.7	176
13	Characterization of a recently evolved flavonol-phenylacyltransferase gene provides signatures of natural light selection in Brassicaceae. <i>Nature Communications</i> , 2016, 7, 12399.	12.8	145
14	Allelic differences in a vacuolar invertase affect <i>Arabidopsis</i> growth at early plant development. <i>Journal of Experimental Botany</i> , 2016, 67, 4091-4103.	4.8	20
15	Natural variation in flavonol accumulation in <i>Arabidopsis</i> is determined by the flavonol glucosyltransferase BGLU6. <i>Journal of Experimental Botany</i> , 2016, 67, 1505-1517.	4.8	67
16	Quantifying Protein Synthesis and Degradation in <i>Arabidopsis</i> by Dynamic <sup>13</sup> C <sub>2</sub> Labeling and Analysis of Enrichment in Individual Amino Acids in Their Free Pools and in Protein. <i>Plant Physiology</i> , 2015, 168, 74-93.	4.8	132
17	Low levels of ribosomal rRNA partly account for the very high photosynthetic phosphorus-use efficiency of <i>Proteaceae</i> species. <i>Plant, Cell and Environment</i> , 2014, 37, 1276-1298.	5.7	121
18	Diurnal Changes of Polysome Loading Track Sucrose Content in the Rosette of Wild-Type <i>Arabidopsis</i> and the Starchless <i>pgm1</i> Mutant. <i>Plant Physiology</i> , 2013, 162, 1246-1265.	4.8	133

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19	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of Arabidopsis Accessions. <i>Plant Physiology</i> , 2013, 162, 347-363.	4.8	87
20	Metabolism and Growth in Arabidopsis Depend on the Daytime Temperature but Are Temperature-Compensated against Cool Nights. <i>Plant Cell</i> , 2012, 24, 2443-2469.	6.6	105
21	Starch as a major integrator in the regulation of plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10348-10353.	7.1	467
22	Metabolomic and genetic analyses of flavonol synthesis in Arabidopsis thaliana support the in vivo involvement of leucoanthocyanidin dioxygenase. <i>Planta</i> , 2009, 229, 427-445.	3.2	116
23	Differential regulation of closely related R2R3-MYB transcription factors controls flavonol accumulation in different parts of the Arabidopsis thaliana seedling. <i>Plant Journal</i> , 2007, 50, 660-677.	5.7	937