

# Satoru Ishikawa

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

4,389  
citations

186265

28  
h-index

289244

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

3451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Root-to-shoot Cd translocation via the xylem is the major process determining shoot and grain cadmium accumulation in rice. <i>Journal of Experimental Botany</i> , 2009, 60, 2677-2688.	4.8	542
2	The OsNRAMP1 iron transporter is involved in Cd accumulation in rice. <i>Journal of Experimental Botany</i> , 2011, 62, 4843-4850.	4.8	493
3	Characterizing the role of rice NRAMP5 in Manganese, Iron and Cadmium Transport. <i>Scientific Reports</i> , 2012, 2, 286.	3.3	424
4	Low-affinity cation transporter ( <i>OsLCT1</i> ) regulates cadmium transport into rice grains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20959-20964.	7.1	409
5	Ion-beam irradiation, gene identification, and marker-assisted breeding in the development of low-cadmium rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19166-19171.	7.1	408
6	Heavy metal contamination of agricultural soil and countermeasures in Japan. <i>Paddy and Water Environment</i> , 2010, 8, 247-257.	1.8	201
7	Chromosomal regions with quantitative trait loci controlling cadmium concentration in brown rice ( <i>Oryza sativa</i> ). <i>New Phytologist</i> , 2005, 168, 345-350.	7.3	144
8	A major quantitative trait locus for increasing cadmium-specific concentration in rice grain is located on the short arm of chromosome 7. <i>Journal of Experimental Botany</i> , 2010, 61, 923-934.	4.8	138
9	Route and Regulation of Zinc, Cadmium, and Iron Transport in Rice Plants ( <i>Oryza sativa</i> L.) during Vegetative Growth and Grain Filling: Metal Transporters, Metal Speciation, Grain Cd Reduction and Zn and Fe Biofortification. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19111-19129.	4.1	135
10	Cadmium Contamination and Its Risk Management in Rice Ecosystems. <i>Advances in Agronomy</i> , 2013, , 183-273.	5.2	115
11	Possible chemical forms of cadmium and varietal differences in cadmium concentrations in the phloem sap of rice plants ( <i>Oryza sativa</i> L.). <i>Soil Science and Plant Nutrition</i> , 2010, 56, 839-847.	1.9	104
12	Genetic improvement for root growth angle to enhance crop production. <i>Breeding Science</i> , 2015, 65, 111-119.	1.9	103
13	Role of the node in controlling traffic of cadmium, zinc, and manganese in rice. <i>Journal of Experimental Botany</i> , 2012, 63, 2729-2737.	4.8	99
14	Phytochelatin synthase <i>OsPCS1</i> plays a crucial role in reducing arsenic levels in rice grains. <i>Plant Journal</i> , 2017, 91, 840-848.	5.7	94
15	Expressing <i>ScACR3</i> in Rice Enhanced Arsenite Efflux and Reduced Arsenic Accumulation in Rice Grains. <i>Plant and Cell Physiology</i> , 2012, 53, 154-163.	3.1	91
16	Genotypic Variation in Shoot Cadmium Concentration in Rice and Soybean in Soils with Different Levels of Cadmium Contamination. <i>Soil Science and Plant Nutrition</i> , 2005, 51, 101-108.	1.9	86
17	Real-time imaging and analysis of differences in cadmium dynamics in rice cultivars ( <i>Oryza sativa</i> ) using positron-emitting <sup>107</sup> Cd tracer. <i>BMC Plant Biology</i> , 2011, 11, 172.	3.6	76
18	Genotypic Differences in Cadmium Concentration and Distribution of Soybean and Rice. <i>Japan Agricultural Research Quarterly</i> , 2006, 40, 21-30.	0.4	73

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19	Genetic diversity of arsenic accumulation in rice and QTL analysis of methylated arsenic in rice grains. <i>Rice</i> , 2013, 6, 3.	4.0	71
20	Is <i>Brassica juncea</i> a suitable plant for phytoremediation of cadmium in soils with moderately low cadmium contamination? Possibility of using other plant species for Cd-phytoextraction. <i>Soil Science and Plant Nutrition</i> , 2006, 52, 32-42.	1.9	67
21	Arsenic biotransformation by <i>S. treptomyces</i> ... isolated from rice rhizosphere. <i>Environmental Microbiology</i> , 2015, 17, 1897-1909.	3.8	64
22	Nitrate facilitates cadmium uptake, transport and accumulation in the hyperaccumulator <i>Sedum plumbizincicola</i> . <i>Environmental Science and Pollution Research</i> , 2013, 20, 6306-6316.	5.3	54
23	Detection of QTLs to reduce cadmium content in rice grains using LAC23/Koshihikari chromosome segment substitution lines. <i>Breeding Science</i> , 2013, 63, 284-291.	1.9	53
24	Simultaneous decrease of arsenic and cadmium in rice ( <i>Oryza sativa</i> L.) plants cultivated under submerged field conditions by the application of iron-bearing materials. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 340-348.	1.9	50
25	Detection of a QTL for accumulating Cd in rice that enables efficient Cd phytoextraction from soil. <i>Breeding Science</i> , 2011, 61, 43-51.	1.9	45
26	Arsenic accumulation and speciation in Japanese paddy rice cultivars. <i>Soil Science and Plant Nutrition</i> , 2011, 57, 248-258.	1.9	43
27	Low-cadmium rice ( <i>Oryza sativa</i> L.) cultivar can simultaneously reduce arsenic and cadmium concentrations in rice grains. <i>Soil Science and Plant Nutrition</i> , 2016, 62, 327-339.	1.9	43
28	Difference in cesium accumulation among rice cultivars grown in the paddy field in Fukushima Prefecture in 2011 and 2012. <i>Journal of Plant Research</i> , 2014, 127, 57-66.	2.4	34
29	Low-cesium rice: mutation in <i>OsSOS2</i> reduces radiocesium in rice grains. <i>Scientific Reports</i> , 2017, 7, 2432.	3.3	26
30	Mechanisms of cadmium accumulation in rice grains and molecular breeding for its reduction. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 28-33.	1.9	21
31	Arsinothricin, a novel organoarsenic species produced by a rice rhizosphere bacterium. <i>Environmental Chemistry</i> , 2016, 13, 723.	1.5	19
32	Breeding of a practical rice line 'JTT8' for phytoextraction of cadmium contamination in paddy fields. <i>Soil Science and Plant Nutrition</i> , 2017, 63, 388-395.	1.9	14
33	'Koshihikari Kan No. 1', a new rice variety with nearly cadmium-free in grains. <i>Ikushugaku Kenkyu</i> , 2017, 19, 109-115.	0.3	9
34	Domain exchange between <i>Oryza sativa</i> phytochelatin synthases reveals a region that determines responsiveness to arsenic and heavy metals. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 548-553.	2.1	9
35	Deficiency in alcohol dehydrogenase 2 reduces arsenic in rice grains by suppressing silicate transporters. <i>Plant Physiology</i> , 2021, 186, 611-623.	4.8	9
36	A weak allele of <i>OsNRAMP5</i> confers moderate cadmium uptake while avoiding manganese deficiency in rice. <i>Journal of Experimental Botany</i> , 2022, 73, 6475-6489.	4.8	9

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37	Agronomic Strategies for Reducing Arsenic Risk in Rice. Current Topics in Environmental Health and Preventive Medicine, 2019, , 181-198.	0.1	6
38	Tonoplast-Localized OsMOT1;2 Participates in Interorgan Molybdate Distribution in Rice. Plant and Cell Physiology, 2021, 62, 913-921.	3.1	4
39	Development of Low-Cadmium-Accumulating Rice. Current Topics in Environmental Health and Preventive Medicine, 2019, , 139-150.	0.1	3
40	Distribution dynamics of arsenic and silicon in different parts of rice grown under field conditions. Soil Science and Plant Nutrition, 2020, 66, 784-792.	1.9	1
41	Amelioration in manganese uptake by a low-cadmium rice cultivar with application of several manganese fertilizers. Soil Science and Plant Nutrition, 0, , 1-9.	1.9	0