Shimpei Uraguchi

List of Publications by Year
in descending order

55 papers	3,088 citations	304368 22 h-index	161609 54 g-index
57 all docs	57 docs citations	57 times ranked	3005 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. Journal of Experimental Botany, 2009, 60, 2677-2688.	2.4	542
2	Low-affinity cation transporter (<i>OsLCT1</i>) regulates cadmium transport into rice grains. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20959-20964.	3.3	409
3	Cadmium transport and tolerance in rice: perspectives for reducing grain cadmium accumulation. Rice, 2012, 5, 5.	1.7	308
4	Rice breaks ground for cadmium-free cereals. Current Opinion in Plant Biology, 2013, 16, 328-334.	3.5	198
5	Phosphate deficiency signaling pathway is a target of arsenate and phosphate transporter<i>OsPT1</i>is involved in As accumulation in shoots of rice. Soil Science and Plant Nutrition, 2013, 59, 580-590.	0.8	153
6	Condensin II Alleviates DNA Damage and Is Essential for Tolerance of Boron Overload Stress in <i>Arabidopsis</i> Â. Plant Cell, 2011, 23, 3533-3546.	3.1	128
7	Nicotianamine is a major player in plant Zn homeostasis. BioMetals, 2013, 26, 623-632.	1.8	108
8	Characteristics of cadmium accumulation and tolerance in novel Cd-accumulating crops, Avena strigosa and Crotalaria juncea. Journal of Experimental Botany, 2006, 57, 2955-2965.	2.4	101
9	<scp>O</scp>s<scp>NIP</scp>3;1, a rice boric acid channel, regulates boron distribution and is essential for growth under boronâ€deficient conditions. Plant Journal, 2014, 78, 890-902.	2.8	95
10	Phytochelatin Synthase has Contrasting Effects on Cadmium and Arsenic Accumulation in Rice Grains. Plant and Cell Physiology, 2017, 58, 1730-1742.	1.5	91
11	Characterization of <scp>OsLCT1</scp>, a cadmium transporter from <i>indica</i> rice (<i>Oryza) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	87
12	Xylem loading process is a critical factor in determining Cd accumulation in the shoots of Solanum melongena and Solanum torvum. Environmental and Experimental Botany, 2009, 67, 127-132.	2.0	82
13	Arabidopsis thaliana phytochelatin synthase 2 is constitutively active in vivo and can rescue the growth defect of the PCS1-deficient cad1-3 mutant on Cd-contaminated soil. Journal of Experimental Botany, 2014, 65, 4241-4253.	2.4	81
14	Rice<i>ABCG43</i>Is Cd Inducible and Confers Cd Tolerance on Yeast. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1211-1213.	0.6	65
15	Roles of Pollen-Specific Boron Efflux Transporter, OsBOR4, in the Rice Fertilization Process. Plant and Cell Physiology, 2013, 54, 2011-2019.	1.5	60
16	Contributions of apoplasmic cadmium accumulation, antioxidative enzymes and induction of phytochelatins in cadmium tolerance of the cadmium-accumulating cultivar of black oat (Avena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.6	51
17	Phytochelatin Synthesis Promotes Leaf Zn Accumulation of<i>Arabidopsis thaliana</i>Plants Grown in Soil with Adequate Zn Supply and is Essential for Survival on Zn-Contaminated Soil. Plant and Cell Physiology, 2016, 57, 2342-2352.	1.5	47
18	Difference in cesium accumulation among rice cultivars grown in the paddy field in Fukushima Prefecture in 2011 and 2012. Journal of Plant Research, 2014, 127, 57-66.	1.2	34

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19	Enhanced arsenic sensitivity with excess phytochelatin accumulation in shoots of a <i>SULTR1;2</i> knockout mutant of <i>Arabidopsis thaliana</i> (L.) Heynh. Soil Science and Plant Nutrition, 2016, 62, 367-372.	0.8	34
20	Atg5-dependent autophagy plays a protective role against methylmercury-induced cytotoxicity. Toxicology Letters, 2016, 262, 135-141.	0.4	34
21	Identification of C-terminal Regions in Arabidopsis thaliana Phytochelatin Synthase 1 Specifically Involved in Activation by Arsenite. Plant and Cell Physiology, 2018, 59, 500-509.	1.5	32
22	Generation of boron-deficiency-tolerant tomato by overexpressing an Arabidopsis thaliana borate transporter AtBOR1. Frontiers in Plant Science, 2014, 5, 125.	1.7	27
23	Significant contribution of boron stored in seeds to initial growth of rice seedlings. Plant and Soil, 2011, 340, 435-442.	1.8	24
24	Engineering expression of the heavy metal transporter MerC in Saccharomyces cerevisiae for increased cadmium accumulation. Applied Microbiology and Biotechnology, 2010, 86, 753-759.	1.7	19
25	Expression of the<i>Arabidopsis</i>Borate Efflux Transporter Gene,<i>AtBOR4</i>, in Rice Affects the Xylem Loading of Boron and Tolerance to Excess Boron. Bioscience, Biotechnology and Biochemistry, 2011, 75, 2421-2423.	0.6	18
26	A Novel Role of MerC in Methylmercury Transport and Phytoremediation of Methylmercury Contamination. Biological and Pharmaceutical Bulletin, 2017, 40, 1125-1128.	0.6	17
27	SCARECROW promoter-driven expression of a bacterial mercury transporter MerC in root endodermal cells enhances mercury accumulation in Arabidopsis shoots. Planta, 2019, 250, 667-674.	1.6	17
28	Ectopic expression of a bacterial mercury transporter MerC in root epidermis for efficient mercury accumulation in shoots of Arabidopsis plants. Scientific Reports, 2019, 9, 4347.	1.6	17
29	Elevated root nicotianamine concentrations are critical for Zn hyperaccumulation across diverse edaphic environments. Plant, Cell and Environment, 2019, 42, 2003-2014.	2.8	17
30	A rice <scp>PHD</scp>â€finger protein Os<scp>TITANIA</scp>, is a growth regulator that functions through elevating expression of transporter genes for multiple metals. Plant Journal, 2018, 96, 997-1006.	2.8	15
31	Sequestosome1/p62 protects mouse embryonic fibroblasts against low-dose methylercury-induced cytotoxicity and is involved in clearance of ubiquitinated proteins. Scientific Reports, 2017, 7, 16735.	1.6	13
32	Cadmium transport activity of four mercury transporters (MerC, MerE, MerF and MerT) and effects of the periplasmic mercury-binding protein MerP on Mer-dependent cadmium uptake. FEMS Microbiology Letters, 2020, 367, .	0.7	12
33	Allelopathy of floodplain vegetation species in the middlecourse of Tama River. Journal of Weed Science and Technology, 2003, 48, 117-129.	0.1	11
34	Cysteine and histidine residues are involved in <i>Escherichia coli</i> Tn<i>21</i> MerE methylmercury transport. FEBS Open Bio, 2017, 7, 1994-1999.	1.0	11
35	Intracellular Demethylation of Methylmercury to Inorganic Mercury by Organomercurial Lyase (MerB) Strengthens Cytotoxicity. Toxicological Sciences, 2019, 170, 438-451.	1.4	11
36	Rapid Monitoring of Mercury in Air from an Organic Chemical Factory in China Using a Portable Mercury Analyzer. Scientific World Journal, The, 2011, 11, 1630-1640.	0.8	10

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37	Variation in the activity of distinct cytochalasins as autophagy inhibitions in human lung A549 cells. Biochemical and Biophysical Research Communications, 2017, 494, 641-647.	1.0	10
38	Docosahexaenoic acid enhances methylmercury-induced endoplasmic reticulum stress and cell death and eicosapentaenoic acid potentially attenuates these effects in mouse embryonic fibroblasts. Toxicology Letters, 2019, 306, 35-42.	0.4	10
39	Phytochelatin-mediated metal detoxification pathway is crucial for an organomercurial phenylmercury tolerance in Arabidopsis. Plant Molecular Biology, 2022, 109, 563-577.	2.0	10
40	Genetic Analysis of Cadmium Accumulation in Shoots of Sorghum Landraces. Crop Science, 2017, 57, 22-31.	0.8	8
41	Cytochalasin E increased the sensitivity of human lung cancer A549â€¯cells to bortezomib via inhibition of autophagy. Biochemical and Biophysical Research Communications, 2018, 498, 603-608.	1.0	8
42	Oleanolic acid 3-glucoside, a synthetic oleanane-type saponin, alleviates methylmercury toxicity in vitro and in vivo. Toxicology, 2019, 417, 15-22.	2.0	8
43	Significant contribution of autophagy in mitigating cytotoxicity of gadolinium ions. Biochemical and Biophysical Research Communications, 2020, 526, 206-212.	1.0	8
44	p62/sequestosome 1 attenuates methylmercury-induced endoplasmic reticulum stress in mouse embryonic fibroblasts. Toxicology Letters, 2021, 353, 93-99.	0.4	8
45	An autophagy deficiency promotes methylmercury-induced multinuclear cell formation. Biochemical and Biophysical Research Communications, 2019, 511, 460-467.	1.0	7
46	Selection of Agar Reagents for Medium Solidification Is a Critical Factor for Metal(loid) Sensitivity and Ionomic Profiles of Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 503.	1.7	7
47	Development of affinity beadâ€"based <i>in vitro</i> metalâ€"ligand binding assay reveals dominant cadmium affinity of thiol-rich small peptides phytochelatins beyond glutathione. Metallomics, 2021, 13, .	1.0	6
48	Immunotoxic Effect of Low-Dose Methylmercury Is Negligible in Mouse Models of Ovalbumin or Mite-Induced Th2 Allergy. Biological and Pharmaceutical Bulletin, 2016, 39, 1353-1358.	0.6	5
49	Stable expression of bacterial transporter ArsB attached to SNARE molecule enhances arsenic accumulation in <i>Arabidopsis</i>. Plant Signaling and Behavior, 2020, 15, 1802553.	1.2	4
50	Effects of chemical forms of gadolinium on the spleen in mice after single intravenous administration. Biochemistry and Biophysics Reports, 2022, 29, 101217.	0.7	4
51	Exogenous Boron supplementation partially rescues fertilization defect of<i>osbor4</i>mutant. Plant Signaling and Behavior, 2014, 9, e28356.	1.2	3
52	Title is missing!. Ecology and Civil Engineering, 2004, 6, 165-176.	0.1	1
53	Oleanolic Acid-3-(1â€²2â€²Orthoacetate-Glucoside)-28-Glucoside Alleviates Methylmercury Toxicity <i>in Vitro</i> and <i>in Vivo</i>. BPB Reports, 2019, 2, 56-60.	0.1	1
54	Protective function of the SQSTM1/p62-NEDD4 complex against methylmercury toxicity. Biochemical and Biophysical Research Communications, 2022, 609, 134-140.	1.0	1

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55	Allelopathy of Robinia pseudo-acacia L. and floodplain vegetation species in Nagata District of the Tama River. Journal of Weed Science and Technology, 2005, 50, 86-87.	0.1	0