

Junpei Takano

List of Publications by Year in descending order

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172457

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Arabidopsis Major Intrinsic Protein NIP5;1 Is Essential for Efficient Boron Uptake and Plant Development under Boron Limitation. <i>Plant Cell</i> , 2006, 18, 1498-1509.	6.6	619
2	Arabidopsis boron transporter for xylem loading. <i>Nature</i> , 2002, 420, 337-340.	27.8	582
3	Endocytic and Secretory Traffic in <i>Arabidopsis</i> Merge in the Trans-Golgi Network/Early Endosome, an Independent and Highly Dynamic Organelle. <i>Plant Cell</i> , 2010, 22, 1344-1357.	6.6	435
4	Adaptation of Root Function by Nutrient-Induced Plasticity of Endodermal Differentiation. <i>Cell</i> , 2016, 164, 447-459.	28.9	414
5	Endocytosis and degradation of BOR1, a boron transporter of <i>Arabidopsis thaliana</i> , regulated by boron availability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12276-12281.	7.1	378
6	Polar localization and degradation of <i>Arabidopsis</i> boron transporters through distinct trafficking pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5220-5225.	7.1	315
7	NIP6;1 Is a Boric Acid Channel for Preferential Transport of Boron to Growing Shoot Tissues in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 20, 2860-2875.	6.6	277
8	Plants Tolerant of High Boron Levels. <i>Science</i> , 2007, 318, 1417-1417.	12.6	256
9	An <i>Arabidopsis thaliana</i> high-affinity molybdate transporter required for efficient uptake of molybdate from soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18807-18812.	7.1	236
10	Boron transport mechanisms: collaboration of channels and transporters. <i>Trends in Plant Science</i> , 2008, 13, 451-457.	8.8	227
11	A receptor-like kinase mutant with absent endodermal diffusion barrier displays selective nutrient homeostasis defects. <i>ELife</i> , 2014, 3, e03115.	6.0	203
12	High Boron-induced Ubiquitination Regulates Vacuolar Sorting of the BOR1 Borate Transporter in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 6175-6183.	3.4	169
13	Insights into the Mechanisms Underlying Boron Homeostasis in Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 1951.	3.6	133
14	Improvement of seed yields under boron-limiting conditions through overexpression of BOR1, a boron transporter for xylem loading, in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2006, 46, 1084-1091.	5.7	118
15	Roles of BOR2, a Boron Exporter, in Cross Linking of Rhamnogalacturonan II and Root Elongation under Boron Limitation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 163, 1699-1709.	4.8	117
16	Polar Localization of the NIP5;1 Boric Acid Channel Is Maintained by Endocytosis and Facilitates Boron Transport in <i>Arabidopsis</i> Roots. <i>Plant Cell</i> , 2017, 29, 824-842.	6.6	107
17	Highly Boron Deficiency-Tolerant Plants Generated by Enhanced Expression of NIP5;1, a Boric Acid Channel. <i>Plant and Cell Physiology</i> , 2009, 50, 58-66.	3.1	102
18	Boron-Dependent Degradation of NIP5;1 mRNA for Acclimation to Excess Boron Conditions in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 3547-3559.	6.6	102

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19	Roles of BOR1, DUR3, and FPS1 in boron transport and tolerance in <i>Saccharomyces cerevisiae</i> . FEMS Microbiology Letters, 2006, 262, 216-222.	1.8	95
20	<sc>O</sc>s<sc>NIP</sc>3;1, a rice boric acid channel, regulates boron distribution and is essential for growth under boron-deficient conditions. Plant Journal, 2014, 78, 890-902.	5.7	95
21	Preferential translocation of boron to young leaves in <i>Arabidopsis thaliana</i> Regulated by the BOR1 Gene. Soil Science and Plant Nutrition, 2001, 47, 345-357.	1.9	87
22	DRP1-Dependent Endocytosis is Essential for Polar Localization and Boron-Induced Degradation of the Borate Transporter BOR1 in <i>Arabidopsis thaliana</i> . Plant and Cell Physiology, 2016, 57, 1985-2000.	3.1	66
23	<i>Saccharomyces cerevisiae</i> Bor1p is a boron exporter and a key determinant of boron tolerance. FEMS Microbiology Letters, 2007, 267, 230-235.	1.8	60
24	Polar Localization of the Borate Exporter BOR1 Requires AP2-Dependent Endocytosis. Plant Physiology, 2019, 179, 1569-1580.	4.8	58
25	Differential Expression of Three BOR1 Genes Corresponding to Different Genomes in Response to Boron Conditions in Hexaploid Wheat (<i>Triticum aestivum</i> L.). Plant and Cell Physiology, 2013, 54, 1056-1063.	3.1	48
26	Boron-Dependent Translational Suppression of the Borate Exporter BOR1 Contributes to the Avoidance of Boron Toxicity. Plant Physiology, 2018, 177, 759-774.	4.8	48
27	Evolutionary Divergence of Plant Borate Exporters and Critical Amino Acid Residues for the Polar Localization and Boron-Dependent Vacuolar Sorting of AtBOR1. Plant and Cell Physiology, 2015, 56, 852-862.	3.1	40
28	Nodulin Intrinsic Protein 7;1 Is a Tapetal Boric Acid Channel Involved in Pollen Cell Wall Formation. Plant Physiology, 2018, 178, 1269-1283.	4.8	39
29	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.	2.4	34
30	Tolerance to Excess-Boron Conditions Acquired by Stabilization of a BOR1 Variant with Weak Polarity in <i>Arabidopsis</i> . Frontiers in Cell and Developmental Biology, 2016, 4, 4.	3.7	22
31	Polar localization and endocytic degradation of a boron transporter, BOR1, is dependent on specific tyrosine residues. Plant Signaling and Behavior, 2012, 7, 46-49.	2.4	21
32	Identification and Characterization of an <i>Arabidopsis</i> Mutant with Altered Localization of NIP5;1, a Plasma Membrane Boric Acid Channel, Reveals the Requirement for d-Galactose in Endomembrane Organization. Plant and Cell Physiology, 2014, 55, 704-714.	3.1	20
33	Transport-coupled ubiquitination of the borate transporter BOR1 for its boron-dependent degradation. Plant Cell, 2021, 33, 420-438.	6.6	20
34	Improved tolerance to boron deficiency by enhanced expression of the boron transporter BOR2. Soil Science and Plant Nutrition, 2014, 60, 341-348.	1.9	17
35	TOL proteins mediate vacuolar sorting of the borate transporter BOR1 in <i>Arabidopsis thaliana</i> . Soil Science and Plant Nutrition, 2018, 64, 598-605.	1.9	17
36	Cloning of cDNAs Encoding Isopropylmalate Dehydrogenase from <i>Arabidopsis thaliana</i> and Accumulation Patterns of Their Transcripts. Bioscience, Biotechnology and Biochemistry, 2005, 69, 806-810.	1.3	13

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37	Establishment of genetically encoded biosensors for cytosolic boric acid in plant cells. <i>Plant Journal</i> , 2018, 95, 763-774.	5.7	13
38	UDP-d-galactose synthesis by UDP-glucose 4-epimerase 4 is required for organization of the trans-Golgi network/early endosome in <i>Arabidopsis thaliana</i> root epidermal cells. <i>Journal of Plant Research</i> , 2015, 128, 863-873.	2.4	12
39	Plant Aquaporin Trafficking. <i>Signaling and Communication in Plants</i> , 2017, , 47-81.	0.7	10
40	GNOMâ€dependent endocytosis maintains polar localisation of the borate exporter BOR1 in <i>Arabidopsis</i> . <i>Biology of the Cell</i> , 2021, 113, 264-269.	2.0	6
41	Analysis of Endocytosis and Ubiquitination of the BOR1 Transporter. <i>Methods in Molecular Biology</i> , 2014, 1209, 203-217.	0.9	5
42	Analysis of and Intracellular Trafficking of Boric Acid/Borate Transport Proteins in <i>Arabidopsis</i> . <i>Methods in Molecular Biology</i> , 2020, 2177, 1-13.	0.9	5
43	Root response of soybean genotypes to low phosphorus availability from juvenile to adult vegetative stages. <i>Soil Science and Plant Nutrition</i> , 2022, 68, 361-373.	1.9	3
44	Involvement of boron transporter BOR1 in growth under low boron and high nitrate conditions in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2021, 171, 703-713.	5.2	2
45	Title is missing!. <i>Kagaku To Seibutsu</i> , 2011, 49, 440-442.	0.0	0
46	Boron Uptake Assay in <i>Xenopus laevis</i> Oocytes. <i>Bio-protocol</i> , 2018, 8, e2755.	0.4	0