

Masatsugu Toyota

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,971
citations

17
h-index

41
g-index

41
ext. papers

2,598
ext. citations

7.4
avg, IF

5.06
L-index

#	Paper	IF	Citations
38	Salt stress-induced Ca ²⁺ waves are associated with rapid, long-distance root-to-shoot signaling in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6497-502	11.5	406
37	Glutamate triggers long-distance, calcium-based plant defense signaling. <i>Science</i> , 2018 , 361, 1112-1115	33.3	370
36	A tidal wave of signals: calcium and ROS at the forefront of rapid systemic signaling. <i>Trends in Plant Science</i> , 2014 , 19, 623-30	13.1	356
35	Interplay of Plasma Membrane and Vacuolar Ion Channels, Together with BAK1, Elicits Rapid Cytosolic Calcium Elevations in Arabidopsis during Aphid Feeding. <i>Plant Cell</i> , 2017 , 29, 1460-1479	11.6	101
34	Cytoplasmic calcium increases in response to changes in the gravity vector in hypocotyls and petioles of Arabidopsis seedlings. <i>Plant Physiology</i> , 2008 , 146, 505-14	6.6	88
33	Gravitropism and mechanical signaling in plants. <i>American Journal of Botany</i> , 2013 , 100, 111-25	2.7	86
32	The Arabidopsis LAZY1 Family Plays a Key Role in Gravity Signaling within Statocytes and in Branch Angle Control of Roots and Shoots. <i>Plant Cell</i> , 2017 , 29, 1984-1999	11.6	85
31	An Arabidopsis E3 ligase, SHOOT GRAVITROPISM9, modulates the interaction between statoliths and F-actin in gravity sensing. <i>Plant Cell</i> , 2011 , 23, 1830-48	11.6	70
30	CRK2 and C-terminal Phosphorylation of NADPH Oxidase RBOHD Regulate Reactive Oxygen Species Production in Arabidopsis. <i>Plant Cell</i> , 2020 , 32, 1063-1080	11.6	51
29	Amyloplast displacement is necessary for gravisensing in Arabidopsis shoots as revealed by a centrifuge microscope. <i>Plant Journal</i> , 2013 , 76, 648-60	6.9	42
28	Control of basal jasmonate signalling and defence through modulation of intracellular cation flux capacity. <i>New Phytologist</i> , 2017 , 216, 1161-1169	9.8	37
27	CRK2 Enhances Salt Tolerance by Regulating Callose Deposition in Connection with PLD1. <i>Plant Physiology</i> , 2019 , 180, 2004-2021	6.6	31
26	Tonoplast-localized Ca pumps regulate Ca signals during pattern-triggered immunity in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18849-18857	11.5	31
25	Calcium dynamics during trap closure visualized in transgenic Venus flytrap. <i>Nature Plants</i> , 2020 , 6, 1219-1224	11.2	30
24	Analyses of a gravistimulation-specific Ca ²⁺ signature in Arabidopsis using parabolic flights. <i>Plant Physiology</i> , 2013 , 163, 543-54	6.6	27
23	Critical consideration on the relationship between auxin transport and calcium transients in gravity perception of Arabidopsis seedlings. <i>Plant Signaling and Behavior</i> , 2008 , 3, 521-4	2.5	26
22	Using GCaMP3 to Study Ca ²⁺ Signaling in Nicotiana Species. <i>Plant and Cell Physiology</i> , 2017 , 58, 1173-1184	4.9	20

21	Calcium mobilizations in response to changes in the gravity vector in Arabidopsis seedlings: possible cellular mechanisms. <i>Plant Signaling and Behavior</i> , 2014 , 9, e29099	2.5	16
20	The fast and the furious: rapid long-range signaling in plants. <i>Plant Physiology</i> , 2021 , 185, 694-706	6.6	16
19	Developmental changes in crossover frequency in Arabidopsis. <i>Plant Journal</i> , 2011 , 65, 589-99	6.9	15
18	Mechanical Signaling in the Sensitive Plant L. <i>Plants</i> , 2020 , 9,	4.5	14
17	Wortmannin-induced vacuole fusion enhances amyloplast dynamics in Arabidopsis zigzag1 hypocotyls. <i>Journal of Experimental Botany</i> , 2016 , 67, 6459-6472	7	10
16	Live cell imaging of cytoskeletal and organelle dynamics in gravity-sensing cells in plant gravitropism. <i>Methods in Molecular Biology</i> , 2015 , 1309, 57-69	1.4	9
15	CYCLIC NUCLEOTIDE-GATED ION CHANNEL 2 modulates auxin homeostasis and signaling. <i>Plant Physiology</i> , 2021 , 187, 1690-1703	6.6	6
14	Isolation of New Gravitropic Mutants under Hypergravity Conditions. <i>Frontiers in Plant Science</i> , 2016 , 7, 1443	6.2	5
13	Gravity sensing in plant and animal cells. <i>Npj Microgravity</i> , 2021 , 7, 2	5.3	4
12	Real-time In Vivo Recording of Arabidopsis Calcium Signals During Insect Feeding Using a Fluorescent Biosensor. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	3
11	Micromanipulation of amyloplasts with optical tweezers in stems. <i>Plant Biotechnology</i> , 2020 , 37, 405-415.	5.3	3
10	Molecular Mechanisms of Mechanosensing and Mechanotransduction 2018 , 375-397		2
9	Centrifuge Microscopy to Analyze the Sedimentary Movements of Amyloplasts. <i>Bio-protocol</i> , 2014 , 4,	0.9	2
8	Wide-Field, Real-Time Imaging of Local and Systemic Wound Signals in Arabidopsis. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	2
7	Mechanosensory trichome cells evoke a mechanical stimuli-induced immune response in Arabidopsis thaliana.. <i>Nature Communications</i> , 2022 , 13, 1216	17.4	2
6	CRK2 enhances salt tolerance in Arabidopsis thaliana by regulating endocytosis and callose deposition in connection with PLD β		1
5	CRK2 and C-terminal phosphorylation of NADPH oxidase RBOHD regulate ROS production in Arabidopsis		1
4	Cyclic Nucleotide-Gated Ion Channel 2 modulates auxin homeostasis and signaling		1

- 3 SB-1 Long-distance Ca²⁺ signaling via glutamate receptor channels in plants. *Microscopy (Oxford, England)*, **2019**, 68, i13-i13 1.3 1
- 2 Live-cell imaging of plant gravity sensing by using a vertical-stage confocal microscope and a centrifuge microscope. *Plant Morphology*, **2012**, 24, 23-32 0
- 1 Long-range, Rapid Ca²⁺ Signal Transduction in Plants. *Seibutsu Butsuri*, **2022**, 62, 56-57 0