

Sjñke Scherzer

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,349
citations

331670

21
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

3319
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity of guard cell anion channel SLAC1 is controlled by drought-stress signaling kinase-phosphatase pair. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21425-21430.	7.1	787
2	Guard cell anion channel SLAC1 is regulated by CDPK protein kinases with distinct Ca ²⁺ affinities. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8023-8028.	7.1	500
3	Stomatal Closure by Fast Abscisic Acid Signaling Is Mediated by the Guard Cell Anion Channel SLAH3 and the Receptor RCAR1. Science Signaling, 2011, 4, ra32.	3.6	338
4	<i>Arabidopsis</i> nanodomain-delimited ABA signaling pathway regulates the anion channel SLAH3. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8296-8301.	7.1	210
5	The calcium-permeable channel OSCA1.3 regulates plant stomatal immunity. Nature, 2020, 585, 569-573.	27.8	208
6	AUX1-mediated root hair auxin influx governs SCFTIR1/AFB-type Ca ²⁺ signaling. Nature Communications, 2018, 9, 1174.	12.8	160
7	Guard cell <i>SLAC</i> -type anion channels mediate flagellin-induced stomatal closure. New Phytologist, 2015, 208, 162-173.	7.3	138
8	The Venus Flytrap <i>Dionaea muscipula</i> Counts Prey-Induced Action Potentials to Induce Sodium Uptake. Current Biology, 2016, 26, 286-295.	3.9	127
9	Multiple Calcium-Dependent Kinases Modulate ABA-Activated Guard Cell Anion Channels. Molecular Plant, 2012, 5, 1409-1412.	8.3	120
10	Calcium sensor kinase activates potassium uptake systems in gland cells of Venus flytraps. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7309-7314.	7.1	98
11	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of <i>Chenopodium quinoa</i> . Current Biology, 2018, 28, 3075-3085.e7.	3.9	98
12	A Single-Pore Residue Renders the <i>Arabidopsis</i> Root Anion Channel SLAH2 Highly Nitrate Selective. Plant Cell, 2014, 26, 2554-2567.	6.6	80
13	Venus flytrap trigger hairs are micronewton mechano-sensors that can detect small insect prey. Nature Plants, 2019, 5, 670-675.	9.3	55
14	The <i>Dionaea muscipula</i> Ammonium Channel DmAMT1 Provides NH ₄ ⁺ Uptake Associated with Venus Flytrap's Prey Digestion. Current Biology, 2013, 23, 1649-1657.	3.9	53
15	Venus Flytrap HKT1-Type Channel Provides for Prey Sodium Uptake into Carnivorous Plant Without Conflicting with Electrical Excitability. Molecular Plant, 2016, 9, 428-436.	8.3	52
16	Insect haptoelectrical stimulation of Venus flytrap triggers exocytosis in gland cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4822-4827.	7.1	50
17	Channelrhodopsin-mediated optogenetics highlights a central role of depolarization-dependent plant proton pumps. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20920-20925.	7.1	46
18	The Venus flytrap trigger hair-specific potassium channel KDM1 can reestablish the K ⁺ gradient required for hapto-electric signaling. PLoS Biology, 2020, 18, e3000964.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Action potentials induce biomagnetic fields in carnivorous Venus flytrap plants. <i>Scientific Reports</i> , 2021, 11, 1438.	3.3	30
20	Acidosis-induced activation of anion channel SLAH3 in the flooding-related stress response of <i>Arabidopsis</i> . <i>Current Biology</i> , 2021, 31, 3575-3585.e9.	3.9	29
21	Optogenetic control of the guard cell membrane potential and stomatal movement by the light-gated anion channel <i>At</i> ACR1. <i>Science Advances</i> , 2021, 7, .	10.3	28
22	Sugar loading is not required for phloem sap flow in maize plants. <i>Nature Plants</i> , 2022, 8, 171-180.	9.3	23
23	Integration of trap- and root-derived nitrogen nutrition of carnivorous <i>Dionaea muscipula</i> . <i>New Phytologist</i> , 2015, 205, 1320-1329.	7.3	20
24	Ether anesthetics prevents touch-induced trigger hair calcium-electrical signals excite the Venus flytrap. <i>Scientific Reports</i> , 2022, 12, 2851.	3.3	19
25	Mechano-Stimulation Triggers Turgor Changes Associated with Trap Closure in the Darwin Plant <i>Dionaea muscipula</i> . <i>Molecular Plant</i> , 2014, 7, 744-746.	8.3	11
26	Signaling and transport processes related to the carnivorous lifestyle of plants living on nutrient-poor soil. <i>Plant Physiology</i> , 2021, 187, 2017-2031.	4.8	10
27	Stalk cell polar ion transport provide for bladder-based salinity tolerance in <i>Chenopodium quinoa</i> . <i>New Phytologist</i> , 2022, 235, 1822-1835.	7.3	8
28	Pitfalls in auxin pharmacology. <i>New Phytologist</i> , 2020, 227, 286-292.	7.3	7