

# SÄjnke 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	Ether anesthetics prevents touch-induced trigger hair calcium-electrical signals excite the Venus flytrap. <i>Scientific Reports</i> , 2022, 12, 2851.	3.3	19
2	Sugar loading is not required for phloem sap flow in maize plants. <i>Nature Plants</i> , 2022, 8, 171-180.	9.3	23
3	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
4	Action potentials induce biomagnetic fields in carnivorous Venus flytrap plants. <i>Scientific Reports</i> , 2021, 11, 1438.	3.3	30
5	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
6	Optogenetic control of the guard cell membrane potential and stomatal movement by the light-gated anion channel <i>ACR1</i> . <i>Science Advances</i> , 2021, 7, .	10.3	28
7	Acidosis-induced activation of anion channel <i>SLAH3</i> in the flooding-related stress response of <i>Arabidopsis</i> . <i>Current Biology</i> , 2021, 31, 3575-3585.e9.	3.9	29
8	Channelrhodopsin-mediated optogenetics highlights a central role of depolarization-dependent plant proton pumps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20920-20925.	7.1	46
9	The calcium-permeable channel <i>OSCA1.3</i> regulates plant stomatal immunity. <i>Nature</i> , 2020, 585, 569-573.	27.8	208
10	Pitfalls in auxin pharmacology. <i>New Phytologist</i> , 2020, 227, 286-292.	7.3	7
11	The Venus flytrap trigger hair-specific potassium channel <i>KDM1</i> can reestablish the K <sup>+</sup> gradient required for hapto-electric signaling. <i>PLoS Biology</i> , 2020, 18, e3000964.	5.6	35
12	Venus flytrap trigger hairs are micronewton mechano-sensors that can detect small insect prey. <i>Nature Plants</i> , 2019, 5, 670-675.	9.3	55
13	<i>AUX1</i> -mediated root hair auxin influx governs <i>SCFTIR1/AFB</i> -type Ca <sup>2+</sup> signaling. <i>Nature Communications</i> , 2018, 9, 1174.	12.8	160
14	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of <i>Chenopodium quinoa</i> . <i>Current Biology</i> , 2018, 28, 3075-3085.e7.	3.9	98
15	Insect haptoelectrical stimulation of Venus flytrap triggers exocytosis in gland cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4822-4827.	7.1	50
16	The Venus Flytrap <i>Dionaea muscipula</i> Counts Prey-Induced Action Potentials to Induce Sodium Uptake. <i>Current Biology</i> , 2016, 26, 286-295.	3.9	127
17	Venus Flytrap <i>HKT1</i> -Type Channel Provides for Prey Sodium Uptake into Carnivorous Plant Without Conflicting with Electrical Excitability. <i>Molecular Plant</i> , 2016, 9, 428-436.	8.3	52
18	Guard cell <i>SLAC1</i> -type anion channels mediate flagellin-induced stomatal closure. <i>New Phytologist</i> , 2015, 208, 162-173.	7.3	138

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19	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
20	Integration of trap- and root-derived nitrogen nutrition of carnivorous <i>Dionaea muscipula</i> . New Phytologist, 2015, 205, 1320-1329.	7.3	20
21	Mechano-Stimulation Triggers Turgor Changes Associated with Trap Closure in the Darwin Plant <i>Dionaea muscipula</i> . Molecular Plant, 2014, 7, 744-746.	8.3	11
22	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
23	The <i>Dionaea muscipula</i> Ammonium Channel DmAMT1 Provides NH <sub>4</sub> <sup>+</sup> Uptake Associated with Venus Flytrap's Prey Digestion. Current Biology, 2013, 23, 1649-1657.	3.9	53
24	<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
25	Multiple Calcium-Dependent Kinases Modulate ABA-Activated Guard Cell Anion Channels. Molecular Plant, 2012, 5, 1409-1412.	8.3	120
26	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
27	Guard cell anion channel SLAC1 is regulated by CDPK protein kinases with distinct Ca <sup>2+</sup> affinities. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8023-8028.	7.1	500
28	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