

Gabriel Schaaf

List of Publications by Year in descending order

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47
papers

3,781
citations

218677

26
h-index

214800

47
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57
all docs

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docs citations

57
times ranked

4091
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Isotope Phosphate Labelling of Diverse Metabolites is Enabled by a Family of ¹⁸ O-Phosphoramidites**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
2	<i>Arabidopsis</i> inositol polyphosphate kinases IPK1 and ITPK1 modulate crosstalk between SA-dependent immunity and phosphate-starvation responses. <i>Plant Cell Reports</i> , 2022, 41, 347-363.	5.6	20
3	Root Growth and Architecture of Wheat and Brachypodium Vary in Response to Algal Fertilizer in Soil and Solution. <i>Agronomy</i> , 2022, 12, 285.	3.0	4
4	<i>Arabidopsis</i> PFA-DSP-Type Phosphohydrolases Target Specific Inositol Pyrophosphate Messengers. <i>Biochemistry</i> , 2022, 61, 1213-1227.	2.5	4
5	Analyses of Inositol Phosphates and Phosphoinositides by Strong Anion Exchange (SAX)-HPLC. <i>Methods in Molecular Biology</i> , 2021, 2295, 365-378.	0.9	5
6	Plant flavones enrich rhizosphere Oxalobacteraceae to improve maize performance under nitrogen deprivation. <i>Nature Plants</i> , 2021, 7, 481-499.	9.3	247
7	Crop response to P fertilizer omission under a changing climate - Experimental and modeling results over 115 years of a long-term fertilizer experiment. <i>Field Crops Research</i> , 2021, 268, 108174.	5.1	8
8	ITPK1 is an InsP6/ADP phosphotransferase that controls phosphate signaling in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2021, 14, 1864-1880.	8.3	51
9	Analysis of inositol phosphate metabolism by capillary electrophoresis electrospray ionization mass spectrometry. <i>Nature Communications</i> , 2020, 11, 6035.	12.8	69
10	Deep Learning for Non-Invasive Diagnosis of Nutrient Deficiencies in Sugar Beet Using RGB Images. <i>Sensors</i> , 2020, 20, 5893.	3.8	22
11	Extraction and Quantification of Soluble, Radiolabeled Inositol Polyphosphates from Different Plant Species using SAX-HPLC. <i>Journal of Visualized Experiments</i> , 2020, .	0.3	5
12	<i>Arabidopsis</i> ITPK1 and ITPK2 Have an Evolutionarily Conserved Phytic Acid Kinase Activity. <i>ACS Chemical Biology</i> , 2019, 14, 2127-2133.	3.4	53
13	Two bifunctional inositol pyrophosphate kinases/phosphatases control plant phosphate homeostasis. <i>ELife</i> , 2019, 8, .	6.0	118
14	<i>Arabidopsis</i> Phospholipase C3 is Involved in Lateral Root Initiation and ABA Responses in Seed Germination and Stomatal Closure. <i>Plant and Cell Physiology</i> , 2018, 59, 469-486.	3.1	39
15	Target Identification and Mechanism of Action of Picolinamide and Benzamide Chemotypes with Antifungal Properties. <i>Cell Chemical Biology</i> , 2018, 25, 279-290.e7.	5.2	28
16	The regulation of cell polarity by lipid transfer proteins of the SEC14 family. <i>Current Opinion in Plant Biology</i> , 2017, 40, 158-168.	7.1	29
17	A 1-phytase type III effector interferes with plant hormone signaling. <i>Nature Communications</i> , 2017, 8, 2159.	12.8	40
18	Inositol Polyphosphate Binding Specificity of the Jasmonate Receptor Complex. <i>Plant Physiology</i> , 2016, 171, 2364-2370.	4.8	40

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19	Prometabolites of 5-Phospho- <i>myo</i> -inositol Pentakisphosphate. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9622-9626.	13.8	38
20	VIH2 Regulates the Synthesis of Inositol Pyrophosphate InsP_8 and Jasmonate-Dependent Defenses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 1082-1097.	6.6	153
21	Sec14-nodulin proteins and the patterning of phosphoinositide landmarks for developmental control of membrane morphogenesis. <i>Molecular Biology of the Cell</i> , 2015, 26, 1764-1781.	2.1	44
22	Thoughts on Sec14-like nanoreactors and phosphoinositide signaling. <i>Advances in Biological Regulation</i> , 2012, 52, 115-121.	2.3	23
23	Role of Electrostatic and Hydrogen Bonding Environment in Sequestering Lipids from Membranes Into the Sec14 Protein Cavity. <i>Biophysical Journal</i> , 2011, 100, 552a-553a.	0.5	0
24	Crystallization and preliminary X-ray diffraction analysis of Sfh3, a member of the Sec14 protein superfamily. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1239-1243.	0.7	12
25	Resurrection of a functional phosphatidylinositol transfer protein from a pseudo-Sec14 scaffold by directed evolution. <i>Molecular Biology of the Cell</i> , 2011, 22, 892-905.	2.1	31
26	A blueprint for functional engineering: Single point mutations reconstitute phosphatidylinositol presentation in a pseudo-Sec14 protein. <i>Communicative and Integrative Biology</i> , 2011, 4, 674-678.	1.4	2
27	Sphingolipid metabolism in trans-golgi/endosomal membranes and the regulation of intracellular homeostatic processes in eukaryotic cells. <i>Advances in Enzyme Regulation</i> , 2010, 50, 339-348.	2.6	8
28	The Sec14 superfamily and mechanisms for crosstalk between lipid metabolism and lipid signaling. <i>Trends in Biochemical Sciences</i> , 2010, 35, 150-160.	7.5	182
29	Functional Anatomy of Phospholipid Binding and Regulation of Phosphoinositide Homeostasis by Proteins of the Sec14 Superfamily. <i>Molecular Cell</i> , 2008, 29, 191-206.	9.7	210
30	Plant plasma membrane water channels conduct the signalling molecule H_2O_2 . <i>Biochemical Journal</i> , 2008, 414, 53-61.	3.7	259
31	<i>Trans</i> -Golgi Network and Endosome Dynamics Connect Ceramide Homeostasis with Regulation of the Unfolded Protein Response and TOR Signaling in Yeast. <i>Molecular Biology of the Cell</i> , 2008, 19, 4785-4803.	2.1	47
32	Iron Acquisition by Phytosiderophores Contributes to Cadmium Tolerance. <i>Plant Physiology</i> , 2007, 143, 1761-1773.	4.8	122
33	Local Polarity and Hydrogen Bonding Inside the Sec14p Phospholipid-Binding Cavity: High-Field Multi-Frequency Electron Paramagnetic Resonance Studies. <i>Biophysical Journal</i> , 2007, 92, 3686-3695.	0.5	53
34	Crystallization and preliminary X-ray diffraction analysis of phospholipid-bound Sfh1p, a member of the <i>Saccharomyces cerevisiae</i> Sec14p-like phosphatidylinositol transfer protein family. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1156-1160.	0.7	28
35	Phosphatidylinositol transfer proteins and cellular nanoreactors for lipid signaling. <i>Nature Chemical Biology</i> , 2006, 2, 576-583.	8.0	65
36	The Chemistry of Phospholipid Binding by the <i>Saccharomyces cerevisiae</i> Phosphatidylinositol Transfer Protein Sec14p as Determined by EPR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2006, 281, 34897-34908.	3.4	19

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37	The Diverse Biological Functions of Phosphatidylinositol Transfer Proteins in Eukaryotes. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2006, 41, 21-49.	5.2	93
38	AtIREG2 Encodes a Tonoplast Transport Protein Involved in Iron-dependent Nickel Detoxification in <i>Arabidopsis thaliana</i> Roots. <i>Journal of Biological Chemistry</i> , 2006, 281, 25532-25540.	3.4	194
39	The <i>Arabidopsis</i> 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
40	Different Transport Mechanisms in Plant and Human AMT/Rh-type Ammonium Transporters. <i>Journal of General Physiology</i> , 2006, 127, 133-144.	1.9	89
41	A Putative Function for the <i>Arabidopsis</i> Fe-Phytosiderophore Transporter Homolog AtYSL2 in Fe and Zn Homeostasis. <i>Plant and Cell Physiology</i> , 2005, 46, 762-774.	3.1	163
42	Physiological and biochemical characterization of metal-phytosiderophore transport in graminaceous species. <i>Soil Science and Plant Nutrition</i> , 2004, 50, 989-995.	1.9	20
43	Iron transport in plants: Future research in view of a plant nutritionist and a molecular biologist. <i>Soil Science and Plant Nutrition</i> , 2004, 50, 1003-1012.	1.9	19
44	ZmYS1 Functions as a Proton-coupled Symporter for Phytosiderophore- and Nicotianamine-chelated Metals. <i>Journal of Biological Chemistry</i> , 2004, 279, 9091-9096.	3.4	351
45	A Putative Role for the Vacuolar Calcium/Manganese Proton Antiporter AtCAX2 in Heavy Metal Detoxification. <i>Plant Biology</i> , 2002, 4, 612-618.	3.8	46
46	In Vitro Analysis of α -Amanitin-Resistant Transcription from the rRNA, Procylic Acidic Repetitive Protein, and Variant Surface Glycoprotein Gene Promoters in <i>Trypanosoma brucei</i> . <i>Molecular and Cellular Biology</i> , 1999, 19, 5466-5473.	2.3	58
47	Influence of ions on the unfolding of the spermatozoa of the rock shrimp, <i>Rhynchocinetes typus</i> . <i>The Journal of Experimental Zoology</i> , 1996, 274, 358-364.	1.4	8