

Stefanie Sprunck

List of Publications by Year in descending order

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37
papers

2,971
citations

331670

21
h-index

330143

37
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41
all docs

41
docs citations

41
times ranked

3375
citing authors

#	ARTICLE	IF	CITATIONS
1	Defensin-like polypeptide LUREs are pollen tube attractants secreted from synergid cells. <i>Nature</i> , 2009, 458, 357-361.	27.8	548
2	Mass-spectrometry-based draft of the Arabidopsis proteome. <i>Nature</i> , 2020, 579, 409-414.	27.8	328
3	Egg Cellâ€“Secreted EC1 Triggers Sperm Cell Activation During Double Fertilization. <i>Science</i> , 2012, 338, 1093-1097.	12.6	273
4	Fertilization Mechanisms in Flowering Plants. <i>Current Biology</i> , 2016, 26, R125-R139.	3.9	229
5	Zygotic Resetting of the HISTONE 3 Variant Repertoire Participates in Epigenetic Reprogramming in Arabidopsis. <i>Current Biology</i> , 2010, 20, 2137-2143.	3.9	214
6	Maleâ€“female communication triggers calcium signatures during fertilization in Arabidopsis. <i>Nature Communications</i> , 2014, 5, 4645.	12.8	146
7	The transcript composition of egg cells changes significantly following fertilization in wheat (<i>Triticum aestivum</i> L.). <i>Plant Journal</i> , 2005, 41, 660-672.	5.7	136
8	Zygotic Genome Activation Occurs Shortly after Fertilization in Maize. <i>Plant Cell</i> , 2017, 29, 2106-2125.	6.6	127
9	Brassinosteroids promote Arabidopsis pollen germination and growth. <i>Plant Reproduction</i> , 2014, 27, 153-167.	2.2	96
10	Nuclear behavior, cell polarity, and cell specification in the female gametophyte. <i>Sexual Plant Reproduction</i> , 2011, 24, 123-136.	2.2	84
11	Biochemical isolation of Argonaute protein complexes by Ago-APP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11841-11845.	7.1	82
12	Gamete fusion is facilitated by two sperm cell-expressed DUF679 membrane proteins. <i>Nature Plants</i> , 2019, 5, 253-257.	9.3	71
13	The two male gametes share equal ability to fertilize the egg cell in Arabidopsis thaliana. <i>Current Biology</i> , 2009, 19, R19-R20.	3.9	67
14	Differential expression patterns of arabinogalactan proteins in Arabidopsis thaliana reproductive tissues. <i>Journal of Experimental Botany</i> , 2014, 65, 5459-5471.	4.8	65
15	Comparative transcriptomic analysis reveals conserved programmes underpinning organogenesis and reproduction in land plants. <i>Nature Plants</i> , 2021, 7, 1143-1159.	9.3	61
16	Germline-Specific MATH-BTB Substrate Adaptor MAB1 Regulates Spindle Length and Nuclei Identity in Maize. <i>Plant Cell</i> , 2013, 24, 4974-4991.	6.6	45
17	ALY RNA-Binding Proteins Are Required for Nucleocytoplasmic mRNA Transport and Modulate Plant Growth and Development. <i>Plant Physiology</i> , 2018, 177, 226-240.	4.8	41
18	F-Actin Organization and Pollen Tube Tip Growth in Arabidopsis Are Dependent on the Gametophyte-Specific Armadillo Repeat Protein ARO1. <i>Plant Cell</i> , 2008, 20, 2798-2814.	6.6	40

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19	<i>LACHESIS</i> -dependent egg-cell signaling regulates the development of female gametophytic cells. <i>Development (Cambridge)</i> , 2012, 139, 498-502.	2.5	37
20	Twice the fun, double the trouble: gamete interactions in flowering plants. <i>Current Opinion in Plant Biology</i> , 2020, 53, 106-116.	7.1	36
21	Knockin' on pollen's door: live cell imaging of early polarization events in germinating <i>Arabidopsis</i> pollen. <i>Frontiers in Plant Science</i> , 2015, 6, 246.	3.6	24
22	ARMADILLO REPEAT ONLY proteins confine Rho GTPase signalling to polar growth sites. <i>Nature Plants</i> , 2020, 6, 1275-1288.	9.3	24
23	De novo zygotic transcription in wheat (<i>Triticum aestivum</i> L.) includes genes encoding small putative secreted peptides and a protein involved in proteasomal degradation. <i>Plant Reproduction</i> , 2013, 26, 267-285.	2.2	21
24	Downregulation of egg cell-secreted EC1 is accompanied with delayed gamete fusion and polytubey. <i>Plant Signaling and Behavior</i> , 2013, 8, e27377.	2.4	20
25	Let's get physical: gamete interaction in flowering plants. <i>Biochemical Society Transactions</i> , 2010, 38, 635-640.	3.4	18
26	SUPPRESSOR OF FRIGIDA (SUF4) Supports Gamete Fusion via Regulating <i>Arabidopsis EC1</i> Gene Expression. <i>Plant Physiology</i> , 2017, 173, 155-166.	4.8	18
27	Same same but different: sperm-activating EC1 and ECA1 gametogenesis-related family proteins. <i>Biochemical Society Transactions</i> , 2014, 42, 401-407.	3.4	16
28	Transcriptomics of manually isolated <i>Amborella trichopoda</i> egg apparatus cells. <i>Plant Reproduction</i> , 2019, 32, 15-27.	2.2	16
29	The UAP56-Interacting Export Factors UIEF1 and UIEF2 Function in mRNA Export. <i>Plant Physiology</i> , 2019, 179, 1525-1536.	4.8	13
30	The MATH-BTB Protein TaMAB2 Accumulates in Ubiquitin-Containing Foci and Interacts With the Translation Initiation Machinery in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1469.	3.6	13
31	Aberrant imprinting may underlie evolution of parthenogenesis. <i>Scientific Reports</i> , 2018, 8, 10626.	3.3	12
32	Three Cell Fusions during Double Fertilization. <i>Cell</i> , 2015, 161, 708-709.	28.9	9
33	Manual Isolation of Living Cells from the <i>Arabidopsis thaliana</i> Female Gametophyte by Micromanipulation. <i>Methods in Molecular Biology</i> , 2017, 1669, 221-234.	0.9	9
34	Transcriptomic and Proteomic Insights into <i>Amborella trichopoda</i> Male Gametophyte Functions. <i>Plant Physiology</i> , 2020, 184, 1640-1657.	4.8	7
35	F-actin forms mobile and unwinding ring-shaped structures in germinating <i>Arabidopsis</i> pollen expressing Lifeact. <i>Plant Signaling and Behavior</i> , 2015, 10, e1075684.	2.4	4
36	Comparative analyses of angiosperm secretomes identify apoplastic pollen tube functions and novel secreted peptides. <i>Plant Reproduction</i> , 2021, 34, 47-60.	2.2	4

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37	Identification and Characterization of Reproductive Mutations in Arabidopsis. Methods in Molecular Biology, 2021, 2200, 371-390.	0.9	2