

Scott D Russell

List of Publications by Year in descending order

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84
papers

3,645
citations

136950

32
h-index

138484

58
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87
all docs

87
docs citations

87
times ranked

2698
citing authors

#	ARTICLE	IF	CITATIONS
1	BAK1 and BKK1 Regulate Brassinosteroid-Dependent Growth and Brassinosteroid-Independent Cell-Death Pathways. <i>Current Biology</i> , 2007, 17, 1109-1115.	3.9	378
2	The Mechanisms of Pollination and Fertilization in Plants. <i>Annual Review of Cell and Developmental Biology</i> , 2002, 18, 81-105.	9.4	299
3	Double Fertilization. <i>International Review of Cytology</i> , 1992, 140, 357-388.	6.2	173
4	Female Germ Unit: Organization, Isolation, and Function. <i>International Review of Cytology</i> , 1992, , 233-293.	6.2	168
5	Experimental Analysis of the Fertilization Process. <i>Plant Cell</i> , 2004, 16, S107-S118.	6.6	163
6	Ultrastructure of the sperm of <i>Plumbago zeylanica</i> . <i>Planta</i> , 1984, 162, 385-391.	3.2	150
7	Fine structure of megagametophyte development in <i>Zea mays</i> . <i>Canadian Journal of Botany</i> , 1979, 57, 1093-1110.	1.1	106
8	Silica nanoparticles aid in structural leaf coloration in the Malaysian tropical rainforest understorey herb <i>Mapania caudata</i> . <i>Annals of Botany</i> , 2013, 112, 1141-1148.	2.9	100
9	Calcium function and distribution during fertilization in angiosperms. <i>American Journal of Botany</i> , 2007, 94, 1046-1060.	1.7	98
10	Transcriptomes of isolated <i>Oryza sativa</i> gametes characterized by deep sequencing: evidence for distinct sex-dependent chromatin and epigenetic states before fertilization. <i>Plant Journal</i> , 2013, 76, 729-741.	5.7	89
11	BEN1, a gene encoding a dihydroflavonol 4-reductase (DFR)-like protein, regulates the levels of brassinosteroids in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 51, 220-233.	5.7	87
12	The Zygotic Transition Is Initiated in Unicellular Plant Zygotes with Asymmetric Activation of Parental Genomes. <i>Developmental Cell</i> , 2017, 43, 349-358.e4.	7.0	83
13	Isolation of Sperm Cells from the Pollen of <i>Plumbago zeylanica</i> . <i>Plant Physiology</i> , 1986, 81, 317-319.	4.8	82
14	Response of an allergenic species, <i>Ambrosia psilostachya</i> (Asteraceae), to experimental warming and clipping: implications for public health. <i>American Journal of Botany</i> , 2002, 89, 1843-1846.	1.7	71
15	Calcium distribution in fertilized and unfertilized ovules and embryo sacs of <i>Nicotiana tabacum</i> L.. <i>Planta</i> , 1997, 202, 93-105.	3.2	69
16	Isolation of Fixed and Viable Eggs, Central Cells, and Embryo Sacs from Ovules of <i>Plumbago zeylanica</i> . <i>Plant Physiology</i> , 1989, 90, 9-12.	4.8	68
17	Genomic profiling of rice sperm cell transcripts reveals conserved and distinct elements in the flowering plant male germ lineage. <i>New Phytologist</i> , 2012, 195, 560-573.	7.3	64
18	Attraction and transport of male gametes for fertilization. <i>Sexual Plant Reproduction</i> , 1996, 9, 337-342.	2.2	62

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19	Calcium distribution in fertile and sterile anthers of a photoperiod-sensitive genic male-sterile rice. <i>Planta</i> , 1998, 204, 183-192.	3.2	62
20	Glutathione synthesis is essential for pollen germination in vitro. <i>BMC Plant Biology</i> , 2011, 11, 54.	3.6	58
21	Relationship between double fertilization and the cell cycle in male and female gametes of tobacco. <i>Sexual Plant Reproduction</i> , 2005, 17, 243-252.	2.2	57
22	Fertilization in <i>Plumbago zeylanica</i> : entry and discharge of the pollen tube in the embryo sac. <i>Canadian Journal of Botany</i> , 1982, 60, 2219-2230.	1.1	56
23	FERTILIZATION IN PLUMBAGO ZEYLANICA: GAMETIC FUSION AND FATE OF THE MALE CYTOPLASM. <i>American Journal of Botany</i> , 1983, 70, 416-434.	1.7	55
24	Quantitative cytology of the sperm cells of <i>Brassica campestris</i> and <i>B. oleracea</i> . <i>Planta</i> , 1987, 170, 446-452.	3.2	54
25	In vitro fertilization as a tool for investigating sexual reproduction of angiosperms. <i>Sexual Plant Reproduction</i> , 2006, 19, 103-115.	2.2	54
26	Gene expression in the dimorphic sperm cells of <i>Plumbago zeylanica</i> : transcript profiling, diversity, and relationship to cell type. <i>Plant Journal</i> , 2009, 60, 33-47.	5.7	47
27	Putative cis-regulatory elements in genes highly expressed in rice sperm cells. <i>BMC Research Notes</i> , 2011, 4, 319.	1.4	46
28	Cytoskeletal organisation and modification during pollen tube arrival, gamete delivery and fertilisation in <i>Plumbago zeylanica</i> . <i>Zygote</i> , 1993, 1, 143-154.	1.1	44
29	Scanning electron microscopic observations on deembedded biological tissue sections: Comparison of different fixatives and embedding materials. <i>Journal of Electron Microscopy Technique</i> , 1985, 2, 489-495.	1.1	38
30	The Egg Cell: Development and Role in Fertilization and Early Embryogenesis. <i>Plant Cell</i> , 1993, 5, 1349.	6.6	38
31	Fertilization in <i>Plumbago zeylanica</i> : Gametic Fusion and Fate of the Male Cytoplasm. <i>American Journal of Botany</i> , 1983, 70, 416.	1.7	37
32	Distribution of calcium in the stigma and style of tobacco during pollen germination and tube elongation. <i>Sexual Plant Reproduction</i> , 2009, 22, 87-96.	2.2	34
33	Genome-wide redistribution of 24-nt siRNAs in rice gametes. <i>Genome Research</i> , 2020, 30, 173-184.	5.5	32
34	Molecular repertoire of flowering plant male germ cells. <i>Sexual Plant Reproduction</i> , 2008, 21, 27-36.	2.2	31
35	Transcriptome-Based Examination of Putative Pollen Allergens of Rice (<i>Oryza sativa</i> ssp. <i>japonica</i>). <i>Molecular Plant</i> , 2008, 1, 751-759.	8.3	27
36	ORGANIZATION OF ISOLATED EMBRYO SACS AND EGGS OF PLUMBAGO ZEYLANICA (PLUMBAGINACEAE) BEFORE AND AFTER FERTILIZATION. <i>American Journal of Botany</i> , 1990, 77, 1401-1410.	1.7	26

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37	Sperm cell surface characteristics of <i>Plumbago zeylanica</i> L. in relation to transport in the embryo sac. <i>Planta</i> , 1999, 208, 539-544.	3.2	25
38	Developmental expression of polyubiquitin genes and distribution of ubiquitinated proteins in generative and sperm cells. <i>Sexual Plant Reproduction</i> , 2002, 14, 325-329.	2.2	25
39	Isolation and collection of two populations of viable sperm cells from the pollen of <i>Plumbago zeylanica</i> . <i>Zygote</i> , 1998, 6, 295-298.	1.1	24
40	A highly efficient in vitro plant regeneration system and <i>Agrobacterium</i> -mediated transformation in <i>Plumbago zeylanica</i> . <i>Plant Cell Reports</i> , 2006, 25, 513-521.	5.6	23
41	The male germline of angiosperms: repertoire of an inconspicuous but important cell lineage. <i>Frontiers in Plant Science</i> , 2015, 6, 173.	3.6	23
42	The Gm <i>FWL1</i> (<i>FW2a</i> -like) nodulation gene encodes a plasma membrane microdomain-associated protein. <i>Plant, Cell and Environment</i> , 2017, 40, 1442-1455.	5.7	23
43	Calcium changes in ovules and embryo sacs of <i>Plumbago zeylanica</i> L.. <i>Sexual Plant Reproduction</i> , 2000, 13, 11-20.	2.2	22
44	Localization of the Ca ²⁺ -Binding Protein, <i>Bra r 1</i> , in Anthers and Pollen Tubes. <i>Plant and Cell Physiology</i> , 1999, 40, 1243-1252.	3.1	21
45	Sperm dimorphism in <i>Nicotiana tabacum</i> L.. <i>Sexual Plant Reproduction</i> , 2001, 14, 123-125.	2.2	21
46	The fusion of sperm cells and the function of male germ unit (MGU) of tobacco (<i>Nicotiana tabacum</i>) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	2.2	20
47	Migration of sperm cells during pollen tube elongation in <i>Arabidopsis thaliana</i> : behavior during transport, maturation and upon dissociation of male germ unit associations. <i>Planta</i> , 2011, 233, 325-332.	3.2	20
48	Spray-freezing freeze substitution (SFFS) of cell suspensions for improved preservation of ultrastructure. , 1997, 38, 315-328.		17
49	Calcium changes during megasporogenesis and megaspore degeneration in lettuce (<i>Lactuca sativa</i> L.). <i>Sexual Plant Reproduction</i> , 2008, 21, 197-204.	2.2	17
50	Two-Dimensional Electrophoretic Studies of the Proteins and Polypeptides in Mature Pollen Grains and the Male Germ Unit of <i>Plumbago zeylanica</i> . <i>Plant Physiology</i> , 1988, 88, 764-769.	4.8	16
51	Mechanical isolation and ultrastructural characterization of viable egg cells in <i>Plumbago zeylanica</i> . <i>Sexual Plant Reproduction</i> , 1997, 10, 368-373.	2.2	16
52	Microgametogenesis in <i>Plumbago zeylanica</i> (Plumbaginaceae). 1. Descriptive cytology and three-dimensional organization. <i>American Journal of Botany</i> , 1996, 83, 1435-1453.	1.7	15
53	Microgametogenesis in <i>Plumbago zeylanica</i> (Plumbaginaceae). 2. Quantitative cell and organelle dynamics of the male reproductive cell lineage. <i>Sexual Plant Reproduction</i> , 2005, 18, 113-130.	2.2	15
54	Step-by-step protocols for rice gamete isolation. <i>Plant Reproduction</i> , 2019, 32, 5-13.	2.2	15

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55	Resetting of the 24-nt siRNA landscape in rice zygotes. <i>Genome Research</i> , 2022, 32, 309-323.	5.5	13
56	Culture-induced changes in osmolality of tobacco cell suspensions using four exogenous sugars. <i>Plant Cell, Tissue and Organ Culture</i> , 1998, 55, 9-13.	2.3	12
57	Isolation of the male germ unit: organization and function in tobacco (<i>Nicotiana tabacum</i> L.). <i>Plant Cell Reports</i> , 1998, 18, 143-147.	5.6	12
58	Microgametogenesis in <i>Plumbago zeylanica</i> (Plumbaginaceae). 1. Descriptive Cytology and Three-Dimensional Organization. <i>American Journal of Botany</i> , 1996, 83, 1435.	1.7	12
59	Freeze-fracture of sperm of <i>Plumbago zeylanica</i> L. in pollen and in vitro. <i>Sexual Plant Reproduction</i> , 1997, 10, 217-226.	2.2	11
60	Localization of myosin on sperm-cell-associated membranes of tobacco (<i>Nicotiana tabacum</i> L.). <i>Protoplasma</i> , 1999, 208, 123-128.	2.1	11
61	MEGAGAMETOPHYTE ORGANIZATION IN A POLYEMBRYONIC LINE OF <i>LINUM USITATISSIMUM</i> . <i>American Journal of Botany</i> , 1988, 75, 114-122.	1.7	10
62	FERTILIZATION IN <i>PLUMBAGELLA MICRANTHA</i> . <i>American Journal of Botany</i> , 1988, 75, 778-781.	1.7	10
63	Occurrence of Mitochondria in the Nuclei of Tobacco Sperm Cells. <i>Plant Cell</i> , 1994, 6, 1477.	6.6	9
64	Isolation of viable sperm cells from tobacco (<i>Nicotiana tabacum</i>). <i>Zygote</i> , 1996, 4, 81-84.	1.1	9
65	Plant Reproductive Biology: Trends. <i>International Review of Cytology</i> , 1992, 140, 565-592.	6.2	7
66	Isolation of Male and Female Gametes of Rice. <i>Crop Science</i> , 2010, 50, 2457-2463.	1.8	7
67	Male gamete biology in flowering plants. <i>Biochemical Society Transactions</i> , 2010, 38, 598-603.	3.4	7
68	Cis-Regulatory Elements Determine Germline Specificity and Expression Level of an Isopentenyltransferase Gene in Sperm Cells of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 170, 1524-1534.	4.8	7
69	Fertilization in <i>Plumbagella micrantha</i> . <i>American Journal of Botany</i> , 1988, 75, 778.	1.7	7
70	Organization of Isolated Embryo Sacs and Eggs of <i>Plumbago zeylanica</i> (Plumbaginaceae) Before and After Fertilization. <i>American Journal of Botany</i> , 1990, 77, 1401.	1.7	7
71	Megagametophyte Organization in a Polyembryonic Line of <i>Linum usitatissimum</i> . <i>American Journal of Botany</i> , 1988, 75, 114.	1.7	6
72	Defects in cytoskeletal microtubule deployment of microsporocytes contribute to fertility loss in genic male-sterile Chinese cabbage. <i>Plant Reproduction</i> , 2013, 26, 55-61.	2.2	5

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73	Subcellular distribution of glutathione in the gametophyte. <i>Plant Signaling and Behavior</i> , 2011, 6, 1259-1262.	2.4	4
74	Isolation of Rice Sperm Cells for Transcriptional Profiling. <i>Methods in Molecular Biology</i> , 2017, 1669, 211-219.	0.9	3
75	Attraction and transport of male gametes for fertilization. <i>Sexual Plant Reproduction</i> , 1996, 9, 337-342.	2.2	3
76	Micromanipulation of male and female gametes of <i>Nicotiana tabacum</i> : II. Preliminary attempts for in vitro fertilization and egg cell culture. <i>Plant Cell Reports</i> , 1997, 16, 657-661.	5.6	3
77	A Method for Improved Resolution for Fluorescence Microscopy Using Plastic-Embedded Material Subjected to Resin Extraction. <i>Biotechnic & Histochemistry</i> , 1990, 65, 259-261.	0.4	2
78	Rapid Communication. A Micro-sample critical point drying device for small SEM and TEM specimens. <i>Journal of Electron Microscopy Technique</i> , 1990, 14, 175-176.	1.1	1
79	Sexual Plant Reproduction Congresses: 2008. <i>Sexual Plant Reproduction</i> , 2009, 22, 205-205.	2.2	1
80	Gametic Fusion in <i>Plumbago</i> . <i>BioScience</i> , 1983, 33, 390-390.	4.9	0
81	Immunofluorescent Localization of Myosin on the Sperm Cells of <i>Plumbago Zeylanica</i> . <i>Microscopy and Microanalysis</i> , 1997, 3, 183-184.	0.4	0
82	Cytoskeletal and Nuclear Behavior during Female Gametophyte Development and Fertilization in Angiosperms. , 1999, , 89-97.		0
83	Calcium Distribution and Accumulation in Ovules of <i>Plumbago Zeylanica</i> . <i>Microscopy and Microanalysis</i> , 2000, 6, 696-697.	0.4	0
84	Germline specification in plant reproduction. <i>Sexual Plant Reproduction</i> , 2011, 24, 89-89.	2.2	0