

Julie E Gray

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2381356/publications.pdf>

Version: 2024-02-01

110
papers

10,073
citations

36271

51
h-index

37183

96
g-index

118
all docs

118
docs citations

118
times ranked

8432
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced Genetic Variations in Stomatal Density and Size of Rice Strongly Affects Water Use Efficiency and Responses to Drought Stresses. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	17
2	Small EPIDERMAL PATTERNING FACTOR-LIKE2 peptides regulate awn development in rice. <i>Plant Physiology</i> , 2022, 190, 516-531.	2.3	10
3	Dynamic thermal imaging confirms local but not fast systemic <scp>ABA</scp> responses. <i>Plant, Cell and Environment</i> , 2021, 44, 885-899.	2.8	6
4	Stomatal responses to carbon dioxide and light require abscisic acid catabolism in <i>Arabidopsis</i>. <i>Interface Focus</i> , 2021, 11, 20200036.	1.5	12
5	Leaf temperature responses to ABA and dead bacteria in wheat and <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2021, 16, 1899471.	1.2	1
6	Rice Stomatal Mega-Papillae Restrict Water Loss and Pathogen Entry. <i>Frontiers in Plant Science</i> , 2021, 12, 677839.	1.7	11
7	The influence of stomatal morphology and distribution on photosynthetic gas exchange. <i>Plant Journal</i> , 2020, 101, 768-779.	2.8	137
8	<i>Cr</i> <scp>RLK</scp>1L receptorâ€like kinases <scp>HERK</scp>1 and <scp>ANJEA</scp> are female determinants of pollen tube reception. <i>EMBO Reports</i> , 2020, 21, e48466.	2.0	62
9	How the stomate got his pore: very long chain fatty acids and a structural cell wall protein sculpt the guard cell outer cuticular ledge. <i>New Phytologist</i> , 2020, 228, 1698-1700.	3.5	8
10	Stomata and Sporophytes of the Model Moss <i>Physcomitrium patens</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 643.	1.7	13
11	Rice with reduced stomatal density conserves water and has improved drought tolerance under future climate conditions. <i>New Phytologist</i> , 2019, 221, 371-384.	3.5	330
12	Distinct branches of the Nâ€end rule pathway modulate the plant immune response. <i>New Phytologist</i> , 2019, 221, 988-1000.	3.5	59
13	Mesophyll porosity is modulated by the presence of functional stomata. <i>Nature Communications</i> , 2019, 10, 2825.	5.8	63
14	Reduced stomatal density in bread wheat leads to increased water-use efficiency. <i>Journal of Experimental Botany</i> , 2019, 70, 4737-4748.	2.4	144
15	Rice plants overexpressing OsEPF1 show reduced stomatal density and increased root cortical aerenchyma formation. <i>Scientific Reports</i> , 2019, 9, 5584.	1.6	63
16	Bacterial infection systemically suppresses stomatal density. <i>Plant, Cell and Environment</i> , 2019, 42, 2411-2421.	2.8	37
17	Impact of Stomatal Density and Morphology on Water-Use Efficiency in a Changing World. <i>Frontiers in Plant Science</i> , 2019, 10, 225.	1.7	353
18	Pores for Thought: Can Genetic Manipulation of Stomatal Density Protect Future Rice Yields?. <i>Frontiers in Plant Science</i> , 2019, 10, 1783.	1.7	49

#	ARTICLE	IF	CITATIONS
19	Molecular control of stomatal development. <i>Biochemical Journal</i> , 2018, 475, 441-454.	1.7	106
20	The <i>BIG</i> protein distinguishes the process of CO_2 -induced stomatal closure from the inhibition of stomatal opening by CO_2 . <i>New Phytologist</i> , 2018, 218, 232-241.	3.5	43
21	Stomatal development: focusing on the grasses. <i>Current Opinion in Plant Biology</i> , 2018, 41, 1-7.	3.5	89
22	Models and Mechanisms of Stomatal Mechanics. <i>Trends in Plant Science</i> , 2018, 23, 822-832.	4.3	53
23	Formation of the Stomatal Outer Cuticular Ledge Requires a Guard Cell Wall Proline-Rich Protein. <i>Plant Physiology</i> , 2017, 174, 689-699.	2.3	49
24	Origins and Evolution of Stomatal Development. <i>Plant Physiology</i> , 2017, 174, 624-638.	2.3	154
25	Reducing Stomatal Density in Barley Improves Drought Tolerance without Impacting on Yield. <i>Plant Physiology</i> , 2017, 174, 776-787.	2.3	267
26	CRISPR-Cas9 and CRISPR-Cpf1 mediated targeting of a stomatal developmental gene <i>EPFL9</i> in rice. <i>Plant Cell Reports</i> , 2017, 36, 745-757.	2.8	170
27	Rice <i>SLIMO</i> protease <i>Overly Tolerant to Salt 1</i> targets the transcription factor, <i>OsbZIP23</i> to promote drought tolerance in rice. <i>Plant Journal</i> , 2017, 92, 1031-1043.	2.8	59
28	The Cys-Arg/N-End Rule Pathway Is a General Sensor of Abiotic Stress in Flowering Plants. <i>Current Biology</i> , 2017, 27, 3183-3190.e4.	1.8	118
29	Stomatal Opening Involves Polar, Not Radial, Stiffening Of Guard Cells. <i>Current Biology</i> , 2017, 27, 2974-2983.e2.	1.8	89
30	Conserved Roles of CrRLK1L Receptor-Like Kinases in Cell Expansion and Reproduction from Algae to Angiosperms. <i>Frontiers in Plant Science</i> , 2016, 07, 1269.	1.7	54
31	Stomatal Function Requires Pectin De-methyl-esterification of the Guard Cell Wall. <i>Current Biology</i> , 2016, 26, 2899-2906.	1.8	131
32	Origin and function of stomata in the moss <i>Physcomitrella patens</i> . <i>Nature Plants</i> , 2016, 2, 16179.	4.7	138
33	An ancestral stomatal patterning module revealed in the non-vascular land plant <i>Physcomitrella patens</i> . <i>Development (Cambridge)</i> , 2016, 143, 3306-14.	1.2	56
34	Balancing Water Uptake and Loss through the Coordinated Regulation of Stomatal and Root Development. <i>PLoS ONE</i> , 2016, 11, e0156930.	1.1	30
35	Manipulating stomatal density enhances drought tolerance without deleterious effect on nutrient uptake. <i>New Phytologist</i> , 2015, 208, 336-341.	3.5	151
36	Stomatal Closure: The Old Guard Takes Up the SLAC. <i>Current Biology</i> , 2015, 25, R271-R273.	1.8	12

#	ARTICLE	IF	CITATIONS
37	Increasing water-use efficiency directly through genetic manipulation of stomatal density. <i>New Phytologist</i> , 2015, 207, 188-195.	3.5	270
38	Elevated CO ₂ -Induced Responses in Stomata Require ABA and ABA Signaling. <i>Current Biology</i> , 2015, 25, 2709-2716.	1.8	201
39	Putting the brakes on: abscisic acid as a central environmental regulator of stomatal development. <i>New Phytologist</i> , 2014, 202, 376-391.	3.5	117
40	Light-Induced Stomatal Opening Is Affected by the Guard Cell Protein Kinase APK1b. <i>PLoS ONE</i> , 2014, 9, e97161.	1.1	27
41	New Phytologist next generation scientists. <i>New Phytologist</i> , 2014, 204, 736-737.	3.5	2
42	Nitric Oxide Sensing in Plants Is Mediated by Proteolytic Control of Group VII ERF Transcription Factors. <i>Molecular Cell</i> , 2014, 53, 369-379.	4.5	312
43	Corrigendum to "Early evolutionary acquisition of stomatal control and development gene signalling networks" [Curr. Opin. Plant Biol. 16 (5) (2013) 638-646]. <i>Current Opinion in Plant Biology</i> , 2014, 18, 117-118.	3.5	0
44	Early evolutionary acquisition of stomatal control and development gene signalling networks. <i>Current Opinion in Plant Biology</i> , 2013, 16, 638-646.	3.5	54
45	Genome-wide transcriptomic analysis of the sporophyte of the moss <i>Physcomitrella patens</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 3567-3581.	2.4	48
46	Genetic manipulation of stomatal density influences stomatal size, plant growth and tolerance to restricted water supply across a growth carbon dioxide gradient. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 547-555.	1.8	263
47	Peptides Modulating Development of Specialized Cells. <i>Signaling and Communication in Plants</i> , 2012, , 93-106.	0.5	1
48	Expression and manipulation of <i>PHOSPHOENOLPYRUVATE CARBOXYKINASE 1</i> identifies a role for malate metabolism in stomatal closure. <i>Plant Journal</i> , 2012, 69, 679-688.	2.8	81
49	Regulatory Mechanism Controlling Stomatal Behavior Conserved across 400 Million Years of Land Plant Evolution. <i>Current Biology</i> , 2011, 21, 1025-1029.	1.8	180
50	Land Plants Acquired Active Stomatal Control Early in Their Evolutionary History. <i>Current Biology</i> , 2011, 21, 1030-1035.	1.8	162
51	The signalling peptide EPFL9 is a positive regulator of stomatal development. <i>New Phytologist</i> , 2010, 186, 609-614.	3.5	137
52	BASL and EPF2 act independently to regulate asymmetric divisions during stomatal development. <i>Plant Signaling and Behavior</i> , 2010, 5, 278-280.	1.2	4
53	phytochrome B and PIF4 Regulate Stomatal Development in Response to Light Quantity. <i>Current Biology</i> , 2009, 19, 229-234.	1.8	164
54	The Signaling Peptide EPF2 Controls Asymmetric Cell Divisions during Stomatal Development. <i>Current Biology</i> , 2009, 19, 864-869.	1.8	346

#	ARTICLE	IF	CITATIONS
55	The relationship between pyridine nucleotides and seed dormancy. <i>New Phytologist</i> , 2009, 181, 62-70.	3.5	35
56	Influence of environmental factors on stomatal development. <i>New Phytologist</i> , 2008, 178, 9-23.	3.5	300
57	Involvement of sphingosine kinase in plant cell signalling. <i>Plant Journal</i> , 2008, 56, 64-72.	2.8	109
58	Control of stomatal development. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008, 150, S144.	0.8	0
59	Intercellular Peptide Signals Regulate Plant Meristematic Cell Fate Decisions. <i>Science Signaling</i> , 2008, 1, pe53.	1.6	11
60	Phospho enol pyruvate Carboxykinase in Arabidopsis: Changes in Gene Expression, Protein and Activity during Vegetative and Reproductive Development. <i>Plant and Cell Physiology</i> , 2007, 48, 441-450.	1.5	51
61	Coordinate Regulation of Phosphoenolpyruvate Carboxylase and Phosphoenolpyruvate Carboxykinase by Light and CO ₂ during C ₄ Photosynthesis. <i>Plant Physiology</i> , 2007, 144, 479-486.	2.3	49
62	Nicotinamidase activity is important for germination. <i>Plant Journal</i> , 2007, 51, 341-351.	2.8	106
63	Plant Development: Three Steps for Stomata. <i>Current Biology</i> , 2007, 17, R213-R215.	1.8	24
64	Differential adaptation of two varieties of common bean to abiotic stress. <i>Journal of Experimental Botany</i> , 2006, 57, 699-709.	2.4	67
65	Systemic signalling of environmental cues in Arabidopsis leaves. <i>Journal of Experimental Botany</i> , 2006, 57, 329-341.	2.4	150
66	Plant immunophilins: functional versatility beyond protein maturation. <i>New Phytologist</i> , 2005, 166, 753-769.	3.5	99
67	Guard Cells: Transcription Factors Regulate Stomatal Movements. <i>Current Biology</i> , 2005, 15, R593-R595.	1.8	27
68	The Arabidopsis Cyclophilin Gene Family. <i>Plant Physiology</i> , 2004, 134, 1268-1282.	2.3	212
69	Arabidopsis AtCYP20-2 Is a Light-Regulated Cyclophilin-Type Peptidyl-Prolyl cis-trans Isomerase Associated with the Photosynthetic Membranes. <i>Plant Physiology</i> , 2004, 134, 1244-1247.	2.3	37
70	Gene-specific expression and calcium activation of Arabidopsis thaliana phospholipase C isoforms. <i>New Phytologist</i> , 2004, 162, 643-654.	3.5	92
71	Plant Development: YODA the Stomatal Switch. <i>Current Biology</i> , 2004, 14, R488-R490.	1.8	31
72	Phospholipase C is required for the control of stomatal aperture by ABA. <i>Plant Journal</i> , 2003, 34, 47-55.	2.8	130

#	ARTICLE	IF	CITATIONS
73	Signals from the cuticle affect epidermal cell differentiation. <i>New Phytologist</i> , 2003, 157, 9-23.	3.5	99
74	The effects of manipulating phospholipase C on guard cell ABA-signalling. <i>Journal of Experimental Botany</i> , 2003, 55, 199-204.	2.4	47
75	A role for the cuticular waxes in the environmental control of stomatal development. <i>New Phytologist</i> , 2002, 153, 433-439.	3.5	54
76	A role for nuclear localised proteasomes in mediating auxin action. <i>Plant Journal</i> , 2002, 30, 691-698.	2.8	3
77	Calcium-based signalling systems in guard cells. <i>New Phytologist</i> , 2001, 151, 109-120.	3.5	45
78	Ripening-related occurrence of phosphoenolpyruvate carboxykinase in tomato fruit. <i>Plant Molecular Biology</i> , 2001, 47, 499-506.	2.0	54
79	ABA signalling: A messenger's FIERY fate. <i>Current Biology</i> , 2001, 11, R968-R970.	1.8	8
80	Ca ²⁺ signalling in stomatal guard cells. <i>Biochemical Society Transactions</i> , 2000, 28, 476-481.	1.6	58
81	The HIC signalling pathway links CO ₂ perception to stomatal development. <i>Nature</i> , 2000, 408, 713-716.	13.7	356
82	Ca ²⁺ signalling in stomatal guard cells. <i>Biochemical Society Transactions</i> , 2000, 28, 476-81.	1.6	19
83	Abscisic acid induces oscillations in guard-cell cytosolic free calcium that involve phosphoinositide-specific phospholipase C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 1779-1784.	3.3	369
84	Expression of a proteasome alpha-type subunit gene during tobacco development and senescence. , 1999, 39, 325-333.		34
85	The control of specificity in guard cell signal transduction. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998, 353, 1489-1494.	1.8	28
86	Molecular and Enzymatic Characterization of Three Phosphoinositide-Specific Phospholipase C Isoforms from Potato1. <i>Plant Physiology</i> , 1998, 116, 239-250.	2.3	123
87	113 Conservation of proteasome structure and activity between plants and other eukaryotes. <i>Biochemical Society Transactions</i> , 1998, 26, S395-S395.	1.6	2
88	115 Phosphoinositide signal transduction in guard cells. <i>Biochemical Society Transactions</i> , 1998, 26, S397-S397.	1.6	0
89	Pollination-enhanced expression of a receptor-like protein kinase related gene in tobacco styles. , 1997, 33, 653-665.		21
90	A role for glutamate decarboxylase during tomato ripening: the characterisation of a cDNA encoding a putative glutamate decarboxylase with a calmodulin-binding site. <i>Plant Molecular Biology</i> , 1995, 27, 1143-1151.	2.0	50

#	ARTICLE	IF	CITATIONS
91	The manipulation and modification of tomato fruit ripening by expression of antisense RNA in transgenic plants. <i>Euphytica</i> , 1995, 85, 193-202.	0.6	13
92	Ethylene Genes and Fruit Ripening. , 1995, , 372-394.		7
93	The manipulation and modification of tomato fruit ripening by expression of antisense RNA in transgenic plants. <i>Developments in Plant Breeding</i> , 1995, , 193-202.	0.2	4
94	The use of transgenic and naturally occurring mutants to understand and manipulate tomato fruit ripening. <i>Plant, Cell and Environment</i> , 1994, 17, 557-571.	2.8	117
95	The Molecular Biology of Fruit Ripening. , 1994, , 287-299.		1
96	A histidine decarboxylase-like mRNA is involved in tomato fruit ripening. <i>Plant Molecular Biology</i> , 1993, 23, 627-631.	2.0	29
97	cDNA cloning and characterisation of novel ripening-related mRNAs with altered patterns of accumulation in the ripening inhibitor (rin) tomato ripening mutant. <i>Plant Molecular Biology</i> , 1993, 23, 193-207.	2.0	74
98	Sequence of a Cloned Tomato Ubiquitin Conjugating Enzyme. <i>Plant Physiology</i> , 1993, 103, 1471-1472.	2.3	8
99	Altered Gene Expression, Leaf Senescence, and Fruit Ripening by Inhibiting Ethylene Synthesis with EFE-Antisense Genes. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993, , 82-89.	0.0	2
100	Self-Incompatibility: insights through microscopy. <i>Journal of Microscopy</i> , 1992, 166, 137-148.	0.8	9
101	Molecular biology of fruit ripening and its manipulation with antisense genes. <i>Plant Molecular Biology</i> , 1992, 19, 69-87.	2.0	217
102	Molecular biology of fruit ripening and its manipulation with antisense genes. , 1992, , 69-87.		2
103	Self-Incompatibility as a Model for Cell-Cell Recognition in Flowering Plants. , 1991, , 527-536.		1
104	Action of the Style Product of the Self-Incompatibility Gene of <i>Nicotiana glauca</i> (S-RNase) on in Vitro-Grown Pollen Tubes.. <i>Plant Cell</i> , 1991, 3, 271-283.	3.1	129
105	Action of the Style Product of the Self-Incompatibility Gene of <i>Nicotiana glauca</i> (S-RNase) on in Vitro-Grown Pollen Tubes. <i>Plant Cell</i> , 1991, 3, 271.	3.1	36
106	Self-incompatibility in <i>Nicotiana glauca</i> involves degradation of pollen rRNA. <i>Nature</i> , 1990, 347, 757-760.	18.7	362
107	Inheritance and effect on ripening of antisense polygalacturonase genes in transgenic tomatoes. <i>Plant Molecular Biology</i> , 1990, 14, 369-379.	2.0	339
108	Self-incompatibility: a self-recognition system in plants. <i>Science</i> , 1990, 250, 937-941.	6.0	195

#	ARTICLE	IF	CITATIONS
109	Control and manipulation of gene expression during tomato fruit ripening. <i>Plant Molecular Biology</i> , 1989, 13, 303-311.	2.0	43
110	Gene expression during tomato ripening. <i>Philosophical Transactions of the Royal Society of London Series B, Biological Sciences</i> , 1986, 314, 399-410.	2.4	63