

Federica Brandizzi

List of Publications by Year in descending order

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98
papers

6,992
citations

50276

46
h-index

62596

80
g-index

103
all docs

103
docs citations

103
times ranked

7480
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the Arabidopsis organelle proteome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6518-6523.	7.1	518
2	Organization of the ER-Golgi interface for membrane traffic control. Nature Reviews Molecular Cell Biology, 2013, 14, 382-392.	37.0	447
3	IRE1: ER stress sensor and cell fate executor. Trends in Cell Biology, 2013, 23, 547-555.	7.9	435
4	Membrane Protein Transport between the Endoplasmic Reticulum and the Golgi in Tobacco Leaves Is Energy Dependent but Cytoskeleton Independent. Plant Cell, 2002, 14, 1293-1309.	6.6	303
5	Endoplasmic Reticulum Export Sites and Golgi Bodies Behave as Single Mobile Secretory Units in Plant Cells[W]. Plant Cell, 2004, 16, 1753-1771.	6.6	258
6	A membrane-tethered transcription factor defines a branch of the heat stress response in <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16398-16403.	7.1	248
7	The Destination for Single-Pass Membrane Proteins Is Influenced Markedly by the Length of the Hydrophobic Domain. Plant Cell, 2002, 14, 1077-1092.	6.6	207
8	IRE1/bZIP60-Mediated Unfolded Protein Response Plays Distinct Roles in Plant Immunity and Abiotic Stress Responses. PLoS ONE, 2012, 7, e31944.	2.5	200
9	Transorganellar complementation redefines the biochemical continuity of endoplasmic reticulum and chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12126-12131.	7.1	153
10	AtIRE1A/AtIRE1B and AGB1 independently control two essential unfolded protein response pathways in Arabidopsis. Plant Journal, 2012, 69, 266-277.	5.7	134
11	The UPR Branch IRE1-bZIP60 in Plants Plays an Essential Role in Viral Infection and Is Complementary to the Only UPR Pathway in Yeast. PLoS Genetics, 2015, 11, e1005164.	3.5	123
12	<i>Arabidopsis</i> RHD3 mediates the generation of the tubular ER network and is required for Golgi distribution and motility in plant cells. Journal of Cell Science, 2011, 124, 2241-2252.	2.0	120
13	ER quality control can lead to retrograde transport from the ER lumen to the cytosol and the nucleoplasm in plants. Plant Journal, 2003, 34, 269-281.	5.7	118
14	CAMTA-Mediated Regulation of Salicylic Acid Immunity Pathway Genes in Arabidopsis Exposed to Low Temperature and Pathogen Infection. Plant Cell, 2017, 29, 2465-2477.	6.6	115
15	An Arabidopsis pex10 Null Mutant Is Embryo Lethal, Implicating Peroxisomes in an Essential Role during Plant Embryogenesis. Plant Physiology, 2003, 133, 1809-1819.	4.8	111
16	A Missense Mutation in the <i>Arabidopsis</i> COPII Coat Protein Sec24A Induces the Formation of Clusters of the Endoplasmic Reticulum and Golgi Apparatus. Plant Cell, 2009, 21, 3655-3671.	6.6	103
17	Diacidic Motifs Influence the Export of Transmembrane Proteins from the Endoplasmic Reticulum in Plant Cells. Plant Cell, 2005, 17, 3081-3093.	6.6	96
18	In tobacco leaf epidermal cells, the integrity of protein export from the endoplasmic reticulum and of ER export sites depends on active COPI machinery. Plant Journal, 2006, 46, 95-110.	5.7	93

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19	GTP-Dependent Membrane Fusion. <i>Annual Review of Cell and Developmental Biology</i> , 2013, 29, 529-550.	9.4	90
20	Galactose-Depleted Xyloglucan Is Dysfunctional and Leads to Dwarfism in Arabidopsis. <i>Plant Physiology</i> , 2015, 167, 1296-1306.	4.8	90
21	Protein Transport in Plant Cells: In and Out of the Golgi. <i>Annals of Botany</i> , 2003, 92, 167-180.	2.9	86
22	Functional Diversification of ER Stress Responses in Arabidopsis. <i>Trends in Biochemical Sciences</i> , 2020, 45, 123-136.	7.5	83
23	Cytoskeleton-dependent endomembrane organization in plant cells: an emerging role for microtubules. <i>Plant Journal</i> , 2013, 75, 339-349.	5.7	81
24	The endoplasmic reticulum exerts control over organelle streaming during cell expansion. <i>Journal of Cell Science</i> , 2014, 127, 947-53.	2.0	80
25	Vesicles versus Tubes: Is Endoplasmic Reticulum-Golgi Transport in Plants Fundamentally Different from Other Eukaryotes?. <i>Plant Physiology</i> , 2015, 168, 393-406.	4.8	80
26	Sec22 and Memb11 Are v-SNAREs of the Anterograde Endoplasmic Reticulum-Golgi Pathway in Tobacco Leaf Epidermal Cells. <i>Plant Physiology</i> , 2005, 139, 1244-1254.	4.8	79
27	Arabidopsis mannan synthase CSLA9 and glucan synthase CSLC4 have opposite orientations in the Golgi membrane. <i>Plant Journal</i> , 2010, 64, 1028-1037.	5.7	78
28	Homeostasis of branched-chain amino acids is critical for the activity of TOR signaling in Arabidopsis. <i>ELife</i> , 2019, 8, .	6.0	74
29	De Novo Formation of Plant Endoplasmic Reticulum Export Sites Is Membrane Cargo Induced and Signal Mediated. <i>Plant Physiology</i> , 2007, 143, 1640-1650.	4.8	73
30	Identification and characterization of AtCASP, a plant transmembrane Golgi matrix protein. <i>Plant Molecular Biology</i> , 2005, 58, 109-122.	3.9	70
31	Unfolded protein response in plants: one master, many questions. <i>Current Opinion in Plant Biology</i> , 2015, 27, 59-66.	7.1	68
32	Salicylic acid-independent role of NPR1 is required for protection from proteotoxic stress in the plant endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5203-E5212.	7.1	68
33	Response to Persistent ER Stress in Plants: A Multiphasic Process That Transitions Cells from Prosurvival Activities to Cell Death. <i>Plant Cell</i> , 2018, 30, 1220-1242.	6.6	67
34	The plant secretory pathway for the trafficking of cell wall polysaccharides and glycoproteins. <i>Glycobiology</i> , 2016, 26, 940-949.	2.5	66
35	Molecular cloning of the tomato Hairless gene implicates actin dynamics in trichome-mediated defense and mechanical properties of stem tissue. <i>Journal of Experimental Botany</i> , 2016, 67, 5313-5324.	4.8	63
36	Plant Endocytosis Requires the ER Membrane-Anchored Proteins VAP27-1 and VAP27-3. <i>Cell Reports</i> , 2018, 23, 2299-2307.	6.4	62

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37	The synthesis of xyloglucan, an abundant plant cell wall polysaccharide, requires CSLC function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20316-20324.	7.1	62
38	ER – the key to the highway. Current Opinion in Plant Biology, 2014, 22, 30-38.	7.1	60
39	In Arabidopsis, the spatial and dynamic organization of the endoplasmic reticulum and Golgi apparatus is influenced by the integrity of the C-terminal domain of RHD3, a non-essential GTPase. Plant Journal, 2012, 69, 957-966.	5.7	59
40	Maintaining the factory: the roles of the unfolded protein response in cellular homeostasis in plants. Plant Journal, 2017, 90, 671-682.	5.7	58
41	Non-invasive topology analysis of membrane proteins in the secretory pathway. Plant Journal, 2009, 57, 534-541.	5.7	57
42	Elements proximal to and within the transmembrane domain mediate the organelle-to-organelle movement of bZIP28 under ER stress conditions. Plant Journal, 2012, 70, 1033-1042.	5.7	57
43	Recovery from temporary endoplasmic reticulum stress in plants relies on the tissue-specific and largely independent roles of <sc>bZIP</sc>28 and <sc>bZIP</sc>60, as well as an antagonizing function of <sc>BAX</sc>-inhibitor1 upon the pro-adaptive signaling mediated by <sc>bZIP</sc>28. Plant Journal, 2018, 93, 155-165.	5.7	57
44	Dynamic organization of COPII coat proteins at endoplasmic reticulum export sites in plant cells. Plant Journal, 2009, 57, 963-974.	5.7	54
45	The Microalga <i>Nannochloropsis</i> during Transition from Quiescence to Autotrophy in Response to Nitrogen Availability. Plant Physiology, 2020, 182, 819-839.	4.8	54
46	MAIGO5 Functions in Protein Export from Golgi-Associated Endoplasmic Reticulum Exit Sites in <i>Arabidopsis</i>. Plant Cell, 2013, 25, 4658-4675.	6.6	53
47	Transport from the endoplasmic reticulum to the Golgi in plants: Where are we now?. Seminars in Cell and Developmental Biology, 2018, 80, 94-105.	5.0	51
48	Interaction of the K ⁺ -channel KAT1 with the coat protein complex II coat component Sec24 depends on a di-acidic endoplasmic reticulum export motif. Plant Journal, 2008, 56, 997-1006.	5.7	50
49	The Secreted Plant N-Glycoproteome and Associated Secretory Pathways. Frontiers in Plant Science, 2012, 3, 117.	3.6	47
50	The cytoplasmic localization of the catalytic site of <sc>CSLF</sc>6 supports a channeling model for the biosynthesis of mixed-linkage glucan. Plant Journal, 2015, 81, 537-547.	5.7	47
51	Evolution of a plant gene cluster in Solanaceae and emergence of metabolic diversity. ELife, 2020, 9, .	6.0	47
52	<sc>CPR</sc>5 modulates salicylic acid and the unfolded protein response to manage tradeoffs between plant growth and stress responses. Plant Journal, 2017, 89, 486-501.	5.7	46
53	A Tour of TOR Complex Signaling in Plants. Trends in Biochemical Sciences, 2021, 46, 417-428.	7.5	44
54	Advances in Plant ER Architecture and Dynamics. Plant Physiology, 2018, 176, 178-186.	4.8	41

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55	Interâ€regulation of the unfolded protein response and auxin signaling. <i>Plant Journal</i> , 2014, 77, 97-107.	5.7	40
56	Golgi Traffic and Integrity Depend on N-Myristoyl Transferase-1 in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1756-1773.	6.6	39
57	ER network homeostasis is critical for plant endosome streaming and endocytosis. <i>Cell Discovery</i> , 2015, 1, 15033.	6.7	39
58	SYP73 Anchors the ER to the Actin Cytoskeleton for Maintenance of ER Integrity and Streaming in <i>Arabidopsis</i> . <i>Current Biology</i> , 2016, 26, 3245-3254.	3.9	39
59	<i>REDUCED CHLOROPLAST COVERAGE</i> genes from <i>Arabidopsis thaliana</i> help to establish the size of the chloroplast compartment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1116-25.	7.1	39
60	Evidence for the involvement of the <i>Arabidopsis</i> SEC24A in male transmission. <i>Journal of Experimental Botany</i> , 2011, 62, 4917-4926.	4.8	38
61	HLB1 Is a Tetratricopeptide Repeat Domain-Containing Protein That Operates at the Intersection of the Exocytic and Endocytic Pathways at the TGN/EE in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2016, 28, 746-769.	6.6	38
62	Variation in Membrane Trafficking Linked to SNARE AtSYP51 Interaction With Aquaporin NIP1;1. <i>Frontiers in Plant Science</i> , 2018, 9, 1949.	3.6	36
63	Networkâ€based approaches for understanding gene regulation and function in plants. <i>Plant Journal</i> , 2020, 104, 302-317.	5.7	35
64	ER stress signaling requires RHD3, a functionally conserved ER-shaping GTPase. <i>Journal of Cell Science</i> , 2014, 127, 3227-32.	2.0	33
65	<i>NADPH</i> oxidase activity is required for <i>ER</i> stress survival in plants. <i>Plant Journal</i> , 2018, 96, 1106-1120.	5.7	33
66	TGNap1 is required for microtubule-dependent homeostasis of a subpopulation of the plant trans-Golgi network. <i>Nature Communications</i> , 2018, 9, 5313.	12.8	32
67	Phosphorylation of the C Terminus of RHD3 Has a Critical Role in Homotypic ER Membrane Fusion in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 170, 867-880.	4.8	31
68	A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. <i>Plant Physiology</i> , 2018, 178, 1207-1221.	4.8	31
69	Systemic signaling contributes to the unfolded protein response of the plant endoplasmic reticulum. <i>Nature Communications</i> , 2018, 9, 3918.	12.8	31
70	Conserved and plant-unique strategies for overcoming endoplasmic reticulum stress. <i>Frontiers in Plant Science</i> , 2014, 5, 69.	3.6	30
71	Pectin Methylesterification Impacts the Relationship Between Photosynthesis and Plant Growth in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2016, 171, pp.00173.2016.	4.8	30
72	Maintaining the structural and functional homeostasis of the plant endoplasmic reticulum. <i>Developmental Cell</i> , 2021, 56, 919-932.	7.0	29

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73	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2022, 34, 10-52.	6.6	27
74	Plant growth regulators interact with elevated temperature to alter heat stress signaling via the Unfolded Protein Response in maize. <i>Scientific Reports</i> , 2019, 9, 10392.	3.3	24
75	The plant endoplasmic reticulum: an organized chaos of tubules and sheets with multiple functions. <i>Journal of Microscopy</i> , 2020, 280, 122-133.	1.8	24
76	In the grass species <i>Brachypodium distachyon</i> , the production of mixed-linkage (1,3;1,4)-glucan (MLG) occurs in the Golgi apparatus. <i>Plant Journal</i> , 2018, 93, 1062-1075.	5.7	23
77	AtIRE1C, an unconventional isoform of the UPR master regulator AtIRE1, is functionally associated with AtIRE1B in Arabidopsis gametogenesis. <i>Plant Direct</i> , 2019, 3, e00187.	1.9	20
78	Analysis of Unfolded Protein Response in Arabidopsis. <i>Methods in Molecular Biology</i> , 2013, 1043, 73-80.	0.9	15
79	Plant endomembranes and cytoskeleton: moving targets in immunity. <i>Current Opinion in Plant Biology</i> , 2020, 58, 8-16.	7.1	14
80	Unique and conserved features of the plant ER-shaping GTPase RHD3. <i>Cellular Logistics</i> , 2014, 4, e28217.	0.9	13
81	Phospholipid biosynthesis increases in RHD3-defective mutants. <i>Plant Signaling and Behavior</i> , 2014, 9, e29657.	2.4	13
82	The AGCVIII kinase Dw2 modulates cell proliferation, endomembrane trafficking, and MLG/xylan cell wall localization in elongating stem internodes of <i>Sorghum bicolor</i> . <i>Plant Journal</i> , 2021, 105, 1053-1071.	5.7	11
83	Advanced genomics identifies growth effectors for proteotoxic ER stress recovery in Arabidopsis thaliana. <i>Communications Biology</i> , 2022, 5, 16.	4.4	11
84	ER-Golgi transport: authors' response. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 1-1.	37.0	10
85	Relevance of the Unfolded Protein Response to Spaceflight-Induced Transcriptional Reprogramming in <i>Arabidopsis</i> . <i>Astrobiology</i> , 2021, 21, 367-380.	3.0	10
86	Endoplasmic reticulum shape and function in stress translation. <i>Frontiers in Plant Science</i> , 2014, 5, 425.	3.6	8
87	The mysterious life of the plant trans-Golgi network: advances and tools to understand it better. <i>Journal of Microscopy</i> , 2020, 278, 154-163.	1.8	8
88	Unfolded Protein Response in Arabidopsis. <i>Methods in Molecular Biology</i> , 2018, 1691, 231-238.	0.9	7
89	A temporal hierarchy underpins the transcription factor-DNA interactome of the maize UPR. <i>Plant Journal</i> , 2021, 105, 254-270.	5.7	7
90	Transcriptional competition shapes proteotoxic ER stress resolution. <i>Nature Plants</i> , 2022, 8, 481-490.	9.3	7

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91	In <i>Brachypodium</i> a complex signaling is actuated to protect cells from proteotoxic stress and facilitate seed filling. <i>Planta</i> , 2017, 246, 75-89.	3.2	6
92	Advances in Cell Wall Matrix Research with a Focus on Mixed-Linkage Glucan. <i>Plant and Cell Physiology</i> , 2021, , .	3.1	6
93	The UPR regulator IRE1 promotes balanced organ development by restricting TOR-dependent control of cellular differentiation in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2022, 109, 1229-1248.	5.7	6
94	Disruption of <i>Brachypodium</i> lichenase alters metabolism of mixed-linkage glucan and starch. <i>Plant Journal</i> , 2022, 109, 927-939.	5.7	4
95	Plant Cell Vacuoles: Staining and Fluorescent Probes. <i>Methods in Molecular Biology</i> , 2018, 1789, 55-63.	0.9	2
96	Interactions Between the Plant Endomembranes and the Cytoskeleton. <i>Plant Cell Monographs</i> , 2019, , 125-153.	0.4	2
97	The Plant Endoplasmic Reticulum: A Dynamic Network of Interconnected Membranes. <i>Microscopy and Microanalysis</i> , 2020, 26, 136-136.	0.4	0
98	Protein Preparation for Proteomic Analysis of the Unfolded Protein Response in <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2022, 2378, 279-289.	0.9	0