Federica Brandizzi

List of Publications by Year
in descending order

98	6,992	50244 46	62565 80
papers	citations	h-index	g-index

103	103	103	7480
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A glossary of plant cell structures: Current insights and future questions. Plant Cell, 2022, 34, 10-52.	3.1	27
2	Disruption ofBrachypodiumlichenase alters metabolism of mixedâ€linkage glucan and starch. Plant Journal, 2022, 109, 927-939.	2.8	4
3	Protein Preparation for Proteomic Analysis of the Unfolded Protein Response in Arabidopsis thaliana. Methods in Molecular Biology, 2022, 2378, 279-289.	0.4	0
4	Advanced genomics identifies growth effectors for proteotoxic ER stress recovery in Arabidopsis thaliana. Communications Biology, 2022, 5, 16.	2.0	11
5	The UPR regulator IRE1 promotes balanced organ development by restricting TORâ€dependent control of cellular differentiation in Arabidopsis. Plant Journal, 2022, 109, 1229-1248.	2.8	6
6	Transcriptional competition shapes proteotoxic ER stress resolution. Nature Plants, 2022, 8, 481-490.	4.7	7
7	The AGCVIII kinase Dw2 modulates cell proliferation, endomembrane trafficking, and MLG/xylan cell wall localization in elongating stem internodes of Sorghum bicolor. Plant Journal, 2021, 105, 1053-1071.	2.8	11
8	Relevance of the Unfolded Protein Response to Spaceflight-Induced Transcriptional Reprogramming in Arabidopsis. Astrobiology, 2021, 21, 367-380.	1.5	10
9	A Tour of TOR Complex Signaling in Plants. Trends in Biochemical Sciences, 2021, 46, 417-428.	3.7	44
10	A temporal hierarchy underpins the transcription factorâ€“DNA interactome of the maize UPR. Plant Journal, 2021, 105, 254-270.	2.8	7
11	Maintaining the structural and functional homeostasis of the plant endoplasmic reticulum. Developmental Cell, 2021, 56, 919-932.	3.1	29
12	Advances in Cell Wall Matrix Research with a Focus on Mixed-Linkage Glucan. Plant and Cell Physiology, 2021, , .	1.5	6
13	Functional Diversification of ER Stress Responses in Arabidopsis. Trends in Biochemical Sciences, 2020, 45, 123-136.	3.7	83
14	Plant endomembranes and cytoskeleton: moving targets in immunity. Current Opinion in Plant Biology, 2020, 58, 8-16.	3.5	14
15	Networkâ€based approaches for understanding gene regulation and function in plants. Plant Journal, 2020, 104, 302-317.	2.8	35
16	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.	3.3	62
17	The plant endoplasmic reticulum: an organized chaos of tubules and sheets with multiple functions. Journal of Microscopy, 2020, 280, 122-133.	0.8	24
18	The Microalga Nannochloropsis during Transition from Quiescence to Autotrophy in Response to Nitrogen Availability. Plant Physiology, 2020, 182, 819-839.	2.3	54

#	Article	IF	Citations
19	The mysterious life of the plant transâ€Golgi network: advances and tools to understand it better. Journal of Microscopy, 2020, 278, 154-163.	0.8	8
20	Evolution of a plant gene cluster in Solanaceae and emergence of metabolic diversity. ELife, 2020, 9, .	2.8	47
21	The Plant Endoplasmic Reticulum: A Dynamic Network of Interconnected Membranes. Microscopy and Microanalysis, 2020, 26, 136-136.	0.2	0
22	Plant growth regulators interact with elevated temperature to alter heat stress signaling via the Unfolded Protein Response in maize. Scientific Reports, 2019, 9, 10392.	1.6	24
23	AtIRE1C, an unconventional isoform of the UPR master regulator AtIRE1, is functionally associated with AtIRE1B in Arabidopsis gametogenesis. Plant Direct, 2019, 3, e00187.	0.8	20
24	Homeostasis of branched-chain amino acids is critical for the activity of TOR signaling in Arabidopsis. ELife, 2019, 8, .	2.8	74
25	Interactions Between the Plant Endomembranes and the Cytoskeleton. Plant Cell Monographs, 2019, , 125-153.	0.4	2
26	In the grass species Brachypodium distachyon, the production of mixedâ€linkage (1,3;1,4)â€Î²â€glucan (<scp>MLG</scp>) occurs in the Golgi apparatus. Plant Journal, 2018, 93, 1062-1075.	2.8	23
27	Transport from the endoplasmic reticulum to the Golgi in plants: Where are we now?. Seminars in Cell and Developmental Biology, 2018, 80, 94-105.	2.3	51
28	Unfolded Protein Response in Arabidopsis. Methods in Molecular Biology, 2018, 1691, 231-238.	0.4	7
29	Advances in Plant ER Architecture and Dynamics. Plant Physiology, 2018, 176, 178-186.	2.3	41
30	Recovery from temporary endoplasmic reticulum stress in plants relies on the tissueâ€specific and largely independent roles of <scp>bZIP</scp>28 and <scp>bZIP</scp>60, as well as an antagonizing function of <scp>BAX</scp>â€InhibitorÂ1 upon the proâ€adaptive signaling mediated by <scp>bZIP</scp>28. Plant Journal, 2018, 93, 155-165.	2.8	57
31	TGNap1 is required for microtubule-dependent homeostasis of a subpopulation of the plant trans-Golgi network. Nature Communications, 2018, 9, 5313.	5.8	32
32	A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. Plant Physiology, 2018, 178, 1207-1221.	2.3	31
33	Systemic signaling contributes to the unfolded protein response of the plant endoplasmic reticulum. Nature Communications, 2018, 9, 3918.	5.8	31
34	<scp>NADPH</scp> oxidase activity is required for <scp>ER</scp> stress survival in plants. Plant Journal, 2018, 96, 1106-1120.	2.8	33
35	Response to Persistent ER Stress in Plants: A Multiphasic Process That Transitions Cells from Prosurvival Activities to Cell Death. Plant Cell, 2018, 30, 1220-1242.	3.1	67
36	Plant Endocytosis Requires the ER Membrane-Anchored Proteins VAP27-1 and VAP27-3. Cell Reports, 2018, 23, 2299-2307.	2.9	62

#	Article	IF	Citations
37	Salicylic acid-independent role of NPR1 is required for protection from proteotoxic stress in the plant endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5203-E5212.	3.3	68
38	Variation in Membrane Trafficking Linked to SNARE AtSYP51 Interaction With Aquaporin NIP1;1. Frontiers in Plant Science, 2018, 9, 1949.	1.7	36
39	Plant Cell Vacuoles: Staining and Fluorescent Probes. Methods in Molecular Biology, 2018, 1789, 55-63.	0.4	2
40	In Brachypodium a complex signaling is actuated to protect cells from proteotoxic stress and facilitate seed filling. Planta, 2017, 246, 75-89.	1.6	6
41	Maintaining the factory: the roles of the unfolded protein response in cellular homeostasis in plants. Plant Journal, 2017, 90, 671-682.	2.8	58
42	CAMTA-Mediated Regulation of Salicylic Acid Immunity Pathway Genes in Arabidopsis Exposed to Low Temperature and Pathogen Infection. Plant Cell, 2017, 29, 2465-2477.	3.1	115
43	<scp>CPR</scp>5 modulates salicylic acid and the unfolded protein response to manage tradeoffs between plant growth and stress responses. Plant Journal, 2017, 89, 486-501.	2.8	46
44	Pectin Methylesterification Impacts the Relationship Between Photosynthesis and Plant Growth in Arabidopsis thaliana. Plant Physiology, 2016, 171, pp.00173.2016.	2.3	30
45	HLB1 Is a Tetratricopeptide Repeat Domain-Containing Protein That Operates at the Intersection of the Exocytic and Endocytic Pathways at the TGN/EE in Arabidopsis. Plant Cell, 2016, 28, 746-769.	3.1	38
46	The plant secretory pathway for the trafficking of cell wall polysaccharides and glycoproteins. Glycobiology, 2016, 26, 940-949.	1.3	66
47	Molecular cloning of the tomato Hairless gene implicates actin dynamics in trichome-mediated defense and mechanical properties of stem tissue. Journal of Experimental Botany, 2016, 67, 5313-5324.	2.4	63
48	SYP73 Anchors the ER to the Actin Cytoskeleton for Maintenance of ER Integrity and Streaming in Arabidopsis. Current Biology, 2016, 26, 3245-3254.	1.8	39
49	Phosphorylation of the C Terminus of RHD3 Has a Critical Role in Homotypic ER Membrane Fusion in Arabidopsis. Plant Physiology, 2016, 170, 867-880.	2.3	31
50	REDUCED CHLOROPLAST COVERAGE genes from Arabidopsis thaliana help to establish the size of the chloroplast compartment. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1116-25.	3.3	39
51	ER network homeostasis is critical for plant endosome streaming and endocytosis. Cell Discovery, 2015, 1, 15033.	3.1	39
52	Vesicles versus Tubes: Is Endoplasmic Reticulum-Golgi Transport in Plants Fundamentally Different from Other Eukaryotes?. Plant Physiology, 2015, 168, 393-406.	2.3	80
53	The cytoplasmic localization of the catalytic site of <scp>CSLF</scp>6 supports a channeling model for the biosynthesis of mixedâ€linkage glucan. Plant Journal, 2015, 81, 537-547.	2.8	47
54	Galactose-Depleted Xyloglucan Is Dysfunctional and Leads to Dwarfism in Arabidopsis. Plant Physiology, 2015, 167, 1296-1306.	2.3	90

#	Article	IF	Citations
55	Unfolded protein response in plants: one master, many questions. Current Opinion in Plant Biology, 2015, 27, 59-66.	3.5	68
56	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.	1.5	123
57	Unique and conserved features of the plant ER-shaping GTPase RHD3. Cellular Logistics, 2014, 4, e28217.	0.9	13
58	Conserved and plant-unique strategies for overcoming endoplasmic reticulum stress. Frontiers in Plant Science, 2014, 5, 69.	1.7	30
59	Endoplasmic reticulumÃ¢â‚¬â€shape and function in stress translation. Frontiers in Plant Science, 2014, 5, 425.	1.7	8
60	Phospholipid biosynthesis increases in RHD3-defective mutants. Plant Signaling and Behavior, 2014, 9, e29657.	1.2	13
61	The endoplasmic reticulum exerts control over organelle streaming during cell expansion. Journal of Cell Science, 2014, 127, 947-53.	1.2	80
62	Interâ€regulation of the unfolded protein response and auxin signaling. Plant Journal, 2014, 77, 97-107.	2.8	40
63	ER-Golgi transport: authors' response. Nature Reviews Molecular Cell Biology, 2014, 15, 1-1.	16.1	10
64	ER â€“ the key to the highway. Current Opinion in Plant Biology, 2014, 22, 30-38.	3.5	60
65	ER stress signaling requires RHD3, a functionally conserved ER-shaping GTPase. Journal of Cell Science, 2014, 127, 3227-32.	1.2	33
66	Analysis of Unfolded Protein Response in Arabidopsis. Methods in Molecular Biology, 2013, 1043, 73-80.	0.4	15
67	IRE1: ER stress sensor and cell fate executor. Trends in Cell Biology, 2013, 23, 547-555.	3.6	435
68	Golgi Traffic and Integrity Depend on N-Myristoyl Transferase-1 in Arabidopsis Â. Plant Cell, 2013, 25, 1756-1773.	3.1	39
69	GTP-Dependent Membrane Fusion. Annual Review of Cell and Developmental Biology, 2013, 29, 529-550.	4.0	90
70	Cytoskeletonâ€dependent endomembrane organization in plant cells: an emerging role for microtubules. Plant Journal, 2013, 75, 339-349.	2.8	81
71	Organization of the ERâ€“Golgi interface for membrane traffic control. Nature Reviews Molecular Cell Biology, 2013, 14, 382-392.	16.1	447
72	MAIGO5 Functions in Protein Export from Golgi-Associated Endoplasmic Reticulum Exit Sites inArabidopsisÂ. Plant Cell, 2013, 25, 4658-4675.	3.1	53

#	Article	IF	Citations
73	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.	3.3	153
74	The Secreted Plant N-Glycoproteome and Associated Secretory Pathways. Frontiers in Plant Science, 2012, 3, 117.	1.7	47
75	IRE1/bZIP60-Mediated Unfolded Protein Response Plays Distinct Roles in Plant Immunity and Abiotic Stress Responses. PLoS ONE, 2012, 7, e31944.	1.1	200
76	AtIRE1A/AtIRE1B and AGB1 independently control two essential unfolded protein response pathways in Arabidopsis. Plant Journal, 2012, 69, 266-277.	2.8	134
77	In Arabidopsis, the spatial and dynamic organization of the endoplasmic reticulum and Golgi apparatus is influenced by the integrity of the Câ€terminal domain of RHD3, a nonâ€essential GTPase. Plant Journal, 2012, 69, 957-966.	2.8	59
78	Elements proximal to and within the transmembrane domain mediate the organelleâ€toâ€organelle movement of bZIP28 under ER stress conditions. Plant Journal, 2012, 70, 1033-1042.	2.8	57
79	Evidence for the involvement of the Arabidopsis SEC24A in male transmission. Journal of Experimental Botany, 2011, 62, 4917-4926.	2.4	38
80	Arabidopsis 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.	1.2	120
81	Arabidopsis mannan synthase CSLA9 and glucan synthase CSLC4 have opposite orientations in the Golgi membrane. Plant Journal, 2010, 64, 1028-1037.	2.8	78
82	A Missense Mutation in the Arabidopsis COPII Coat Protein Sec24A Induces the Formation of Clusters of the Endoplasmic Reticulum and Golgi Apparatus. Plant Cell, 2009, 21, 3655-3671.	3.1	103
83	Nonâ€invasive topology analysis of membrane proteins in the secretory pathway. Plant Journal, 2009, 57, 534-541.	2.8	57
84	Dynamic organization of COPII coat proteins at endoplasmic reticulum export sites in plant cells. Plant Journal, 2009, 57, 963-974.	2.8	54
85	Interaction of the K⁺â€channel KAT1 with the coat protein complex II coat component Sec24 depends on a diâ€acidic endoplasmic reticulum export motif. Plant Journal, 2008, 56, 997-1006.	2.8	50
86	A membrane-tethered transcription factor defines a branch of the heat stress response in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16398-16403.	3.3	248
87	De Novo Formation of Plant Endoplasmic Reticulum Export Sites Is Membrane Cargo Induced and Signal Mediated. Plant Physiology, 2007, 143, 1640-1650.	2.3	73
88	Mapping the Arabidopsis organelle proteome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6518-6523.	3.3	518
89	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.	2.8	93
90	Identification and characterization of AtCASP, a plant transmembrane Golgi matrix protein. Plant Molecular Biology, 2005, 58, 109-122.	2.0	70

#	Article	IF	Citations
91	Sec22 and Memb11 Are v-SNAREs of the Anterograde Endoplasmic Reticulum-Golgi Pathway in Tobacco Leaf Epidermal Cells. Plant Physiology, 2005, 139, 1244-1254.	2.3	79
92	Diacidic Motifs Influence the Export of Transmembrane Proteins from the Endoplasmic Reticulum in Plant Cells. Plant Cell, 2005, 17, 3081-3093.	3.1	96
93	Endoplasmic Reticulum Export Sites and Golgi Bodies Behave as Single Mobile Secretory Units in Plant Cells[W]. Plant Cell, 2004, 16, 1753-1771.	3.1	258
94	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.	2.8	118
95	Protein Transport in Plant Cells: In and Out of the GolgiÂ. Annals of Botany, 2003, 92, 167-180.	1.4	86
96	An Arabidopsis pex10 Null Mutant Is Embryo Lethal, Implicating Peroxisomes in an Essential Role during Plant Embryogenesis. Plant Physiology, 2003, 133, 1809-1819.	2.3	111
97	The Destination for Single-Pass Membrane Proteins Is Influenced Markedly by the Length of the Hydrophobic Domain. Plant Cell, 2002, 14, 1077-1092.	3.1	207
98	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.	3.1	303