Alessandro Vitale

List of Publications by Year
in descending order

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90 papers	4,195 citations	94433 37 h-index	114465 63 g-index
90 all docs	90 docs citations	90 times ranked	2715 citing authors

#	Article	IF	Citations
1	The Endoplasmic Reticulumâ€"Gateway of the Secretory Pathway. Plant Cell, 1999, 11, 615-628.	6.6	284
2	Protein quality control along the route to the plant vacuole.. Plant Cell, 1997, 9, 1869-1880.	6.6	188
3	What do proteins need to reach different vacuoles?. Trends in Plant Science, 1999, 4, 149-155.	8.8	182
4	Sorting of proteins to storage vacuoles: how many mechanisms?. Trends in Plant Science, 2005, 10, 316-323.	8.8	180
5	Sorting of Phaseolin to the Vacuole Is Saturable and Requires a Short C-Terminal Peptide. Plant Cell, 1998, 10, 1031-1042.	6.6	171
6	Endoplasmic Reticulum Quality Control and the Unfolded Protein Response: Insights from Plants. Traffic, 2008, 9, 1581-1588.	2.7	171
7	The Role of the Endoplasmic Reticulum in Protein Synthesis, Modification and Intracellular Transport. Journal of Experimental Botany, 1993, 44, 1417-1444.	4.8	119
8	Zeolin. A New Recombinant Storage Protein Constructed Using Maize Î3-Zein and Bean Phaseolin. Plant Physiology, 2004, 136, 3447-3456.	4.8	116
9	Identification of the Protein Storage Vacuole and Protein Targeting to the Vacuole in Leaf Cells of Three Plant Species. Plant Physiology, 2004, 134, 625-639.	4.8	114
10	Protein Quality Control Mechanisms and Protein Storage in the Endoplasmic Reticulum. A Conflict of Interests?. Plant Physiology, 2004, 136, 3420-3426.	4.8	99
11	High-level expression of the HIV-1 Pr55gag polyprotein in transgenic tobacco chloroplasts. Planta, 2009, 229, 1109-1122.	3.2	95
12	Bean homologs of the mammalian glucose-regulated proteins: induction by tunicamycin and interaction with newly synthesized seed storage proteins in the endoplasmic reticulum. Plant Journal, 1992, 2, 443-455.	5.7	94
13	BiP and Calreticulin Form an Abundant Complex That Is Independent of Endoplasmic Reticulum Stress. Plant Cell, 1998, 10, 813-823.	6.6	92
14	Recombinant Pharmaceuticals from Plants: The Plant Endomembrane System as Bioreactor. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2005, 5, 216-225.	3.4	91
15	Binding of BiP to an assembly-defective protein in plant cells. Plant Journal, 1994, 5, 103-110.	5.7	87
16	Free Ricin A Chain, Proricin, and Native Toxin Have Different Cellular Fates When Expressed in Tobacco Protoplasts. Journal of Biological Chemistry, 1998, 273, 14194-14199.	3.4	86
17	Influence of KDEL on the Fate of Trimeric or Assembly-Defective Phaseolin: Selective Use of an Alternative Route to Vacuoles. Plant Cell, 2001, 13, 1109-1126.	6.6	81
18	Assembly, Secretion, and Vacuolar Delivery of a Hybrid Immunoglobulin in Plants. Plant Physiology, 2000, 123, 1483-1494.	4.8	78

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19	Translational fusion of chloroplast-expressed human papillomavirus type 16 L1 capsid protein enhances antigen accumulation in transplastomic tobacco. Transgenic Research, 2008, 17, 1091-1102.	2.4	78
20	The Lateral Root Cap Acts as an Auxin Sink that Controls Meristem Size. Current Biology, 2019, 29, 1199-1205.e4.	3.9	72
21	Assembly and Sorting of the Tonoplast Potassium Channel AtTPK1 and Its Turnover by Internalization into the Vacuole Â Â. Plant Physiology, 2011, 156, 1783-1796.	4.8	71
22	The position of the oligosaccharide side-chains of phytohemagglutinin and their accessibility to glycosidases determines their subsequent processing in the Golgi. FEBS Journal, 1986, 158, 655-661.	0.2	65
23	Glycosylation is not needed for the intracellular transport of phytohemagglutinin in developing Phaseolus vulgaris cotyledons and for the maintenance of its biological activities. Physiologia Plantarum, 1985, 65, 15-22.	5.2	61
24	The human immunodeficiency virus antigen Nef forms protein bodies in leaves of transgenic tobacco when fused to zeolin. Journal of Experimental Botany, 2008, 59, 2815-2829.	4.8	59
25	Traffic Routes and Signals for the Tonoplast. Traffic, 2013, 14, 622-628.	2.7	58
26	Plant endoplasmin supports the protein secretory pathway and has a role in proliferating tissues. Plant Journal, 2006, 48, 657-673.	5.7	56
27	Expression of the wild-type and mutated vacuolar storage protein phaseolin in Xenopus oocytes reveals relationships between assembly and intracellular transport. FEBS Journal, 1991, 202, 959-968.	0.2	54
28	Sorting of proteins to the vacuoles of plant cells. BioEssays, 1992, 14, 151-160.	2.5	54
29	Biosynthesis and processing of phytohemagglutinin in developing bean cotyledons. FEBS Journal, 1984, 141, 97-104.	0.2	51
30	Phaseolus vulgaris phytohemagglutinin contains high-mannose and modified oligosaccharide chains. Planta, 1984, 160, 256-263.	3.2	51
31	The Endomembrane System and the Problem of Protein Sorting: Fig. 1.. Plant Physiology, 2001, 125, 115-118.	4.8	50
32	Retention of a Bean Phaseolin/Maize Î³-Zein Fusion in the Endoplasmic Reticulum Depends on Disulfide Bond Formation. Plant Cell, 2006, 18, 2608-2621.	6.6	49
33	Where do Protein Bodies of Cereal Seeds Come From?. Frontiers in Plant Science, 2016, 7, 1139.	3.6	45
34	A novel Câ€terminal sequence from barley polyamine oxidase is a vacuolar sorting signal. Plant Journal, 2004, 40, 410-418.	5.7	44
35	The Rate of Phaseolin Assembly Is Controlled by the Glucosylation State of Its N-Linked Oligosaccharide Chains.. Plant Cell, 1997, 9, 597-609.	6.6	41
36	The C-terminal tetrapeptide of phaseolin is sufficient to target green fluorescent protein to the vacuole. Journal of Plant Physiology, 2001, 158, 499-503.	3.5	40

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37	A Phaseolin Domain Involved Directly in Trimer Assembly Is a Determinant for Binding by the Chaperone BiP. Plant Cell, 2003, 15, 2464-2475.	6.6	40
38	Reduced Soluble Proteins Associated with Maize Endosperm Protein Bodies. Journal of Experimental Botany, 1982, 33, 439-448.	4.8	36
39	The phaseolin vacuolar sorting signal promotes transient, strong membrane association and aggregation of the bean storage protein in transgenic tobacco. Journal of Experimental Botany, 2005, 56, 1379-1387.	4.8	35
40	Transgenic chloroplasts are efficient sites for highâ€yield production of the vaccinia virus envelope protein A27L in plant cellsâ€. Plant Biotechnology Journal, 2009, 7, 577-591.	8.3	35
41	Peptide mapping of IEF zein components from maize. Plant Science Letters, 1980, 18, 57-64.	1.8	34
42	Regulation of processing of a plant glycoprotein in the Golgi complex: A comparative study usingXenopus oocytes. Planta, 1986, 169, 108-116.	3.2	31
43	The C-terminal Extension of a Hybrid Immunoglobulin A/G Heavy Chain Is Responsible for Its Golgi-mediated Sorting to the Vacuole. Molecular Biology of the Cell, 2003, 14, 2592-2602.	2.1	29
44	Anchorage to the cytosolic face of the endoplasmic reticulum membrane: a new strategy to stabilize a cytosolic recombinant antigen in plants. Plant Biotechnology Journal, 2008, 6, 560-575.	8.3	29
45	Protein Domains Involved in Assembly in the Endoplasmic Reticulum Promote Vacuolar Delivery when Fused to Secretory GFP, Indicating a Protein Quality Control Pathway for Degradation in the Plant Vacuole. Molecular Plant, 2008, 1, 1067-1076.	8.3	27
46	Plant-based strategies aimed at expressing HIV antigens and neutralizing antibodies at high levels. Nef as a case study. Transgenic Research, 2009, 18, 499-512.	2.4	26
47	A Saporin-6 cDNA containing a precursor sequence coding for a carboxyl-terminal extension. FEBS Letters, 1991, 291, 285-288.	2.8	25
48	The alpha-amylase inhibitor of bean seed: two-step proteolytic maturation in the protein storage vacuoles of the developing cotyledon. Physiologia Plantarum, 1992, 85, 425-432.	5.2	25
49	Vacuolar Sorting Determinants Within a Plant Storage Protein Trimer Act Cumulatively. Traffic, 2001, 2, 737-741.	2.7	25
50	Genetic control of a membrane component and zein deposition in maize endosperm. Molecular Genetics and Genomics, 1983, 192, 316-321.	2.4	24
51	Chapter 24 The Use of Protoplasts to Study Protein Synthesis and Transport by the Plant Endomembrane System. Methods in Cell Biology, 1995, 50, 335-348.	1.1	24
52	Variations in carbohydrate and lipid content and in osmotic potential of watermelon cotyledons treated with benzyladenine. Plant Science Letters, 1978, 12, 199-207.	1.8	23
53	Recombinant human GAD65 accumulates to high levels in transgenic tobacco plants when expressed as an enzymatically inactive mutant. Plant Biotechnology Journal, 2010, 8, 862-872.	8.3	22
54	The putative K+ channel subunit AtKCO3 forms stable dimers in Arabidopsis. Frontiers in Plant Science, 2012, 3, 251.	3.6	22

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55	The secretory nature of the lesion of carrot cell variant ts11, rescuable by endochitinase. Planta, 1997, 203, 381-389.	3.2	21
56	Lectin-like proteins accumulate as fragmentation products in bean seed protein bodies. FEBS Letters, 1989, 250, 157-160.	2.8	20
57	Assembly and Intracellular Transport of Phaseolin, the Major Storage Protein of Phaseolus vulgaris L.. Journal of Plant Physiology, 1995, 145, 648-653.	3.5	20
58	The Arabidopsis tonoplast is almost devoid of glycoproteins with complex<i>N</i>-glycans, unlike the rat lysosomal membrane. Journal of Experimental Botany, 2016, 67, 1769-1781.	4.8	20
59	The signal peptide of human preproendothelin-1. FEBS Letters, 1991, 286, 91-94.	2.8	19
60	The Induction of Recombinant Protein Bodies in Different Subcellular Compartments Reveals a Cryptic Plastid-Targeting Signal in the 27-kDa ÃŽÂ³-Zein Sequence. Frontiers in Bioengineering and Biotechnology, 2014, 2, 67.	4.1	19
61	Molecular analysis of a phytohemagglutinin-defective cultivar of Phaseolus vulgaris L.. Planta, 1985, 166, 201-207.	3.2	18
62	An engineered C-terminal disulfide bond can partially replace the phaseolin vacuolar sorting signal. Plant Journal, 2010, 61, 782-791.	5.7	18
63	Plants as biofactories for the production of subunit vaccines against bio-security-related bacteria and virusesâ˜†. Vaccine, 2009, 27, 3463-3466.	3.8	17
64	Maize 16-kD Î³-zein forms very unusual disulfide-bonded polymers in the endoplasmic reticulum: implications for prolamin evolution. Journal of Experimental Botany, 2018, 69, 5013-5027.	4.8	16
65	Mannose Analog 1-Deoxymannojirimycin Inhibits the Golgi-Mediated Processing of Bean Storage Glycoproteins. Plant Physiology, 1989, 89, 1079-1084.	4.8	14
66	The Endoplasmic Reticulum: Gateway of the Secretory Pathway. Plant Cell, 1999, 11, 615.	6.6	13
67	Gene Expression and Synthesis of Phytohemagglutinin in the Embryonic Axes of Developing <i>Phaseolus vulgaris</i> Seeds. Plant Physiology, 1984, 76, 791-796.	4.8	12
68	Chapter 21 Import into the Endoplasmic Reticulum. Methods in Cell Biology, 1995, 50, 295-308.	1.1	11
69	Uncovering Secretory Secrets. Plant Cell, 2001, 13, 1260-1262.	6.6	10
70	Russell-Like Bodies in Plant Seeds Share Common Features With Prolamin Bodies and Occur Upon Recombinant Protein Production. Frontiers in Plant Science, 2019, 10, 777.	3.6	10
71	1-Deoxymannojirimycin inhibits Golgi-mediated processing of glycoprotein in Xenopus oocytes. FEBS Letters, 1988, 234, 489-492.	2.8	9
72	The Rate of Phaseolin Assembly Is Controlled by the Glucosylation State of Its N-Linked Oligosaccharide Chains. Plant Cell, 1997, 9, 597.	6.6	9

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73	C-terminal extension of phaseolin with a short methionine-rich sequence can inhibit trimerisation and result in high instability. Plant Molecular Biology, 2003, 51, 885-894.	3.9	9
74	How are tonoplast proteins degraded?. Plant Signaling and Behavior, 2011, 6, 1809-1812.	2.4	8
75	Cercis siliquastrum L.: A Comparative Study of Endosperm and Embryo Development and Reserve Accumulation. International Journal of Plant Sciences, 1995, 156, 181-187.	1.3	7
76	Calreticulins are not all the same. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13151-13152.	7.1	7
77	Two Î³-zeins induce the unfolded protein response. Plant Physiology, 2021, 187, 1428-1444.	4.8	7
78	Current Methods to Unravel the Functional Properties of Lysosomal Ion Channels and Transporters. Cells, 2022, 11, 921.	4.1	7
79	Bean (Phaseolus vulgaris L.) protoplasts as a model system to study the expression and stability of recombinant seed proteins. Plant Cell Reports, 1997, 16, 705-709.	5.6	6
80	Comparison of Membrane Targeting Strategies for the Accumulation of the Human Immunodeficiency Virus p24 Protein in Transgenic Tobacco. International Journal of Molecular Sciences, 2013, 14, 13241-13265.	4.1	6
81	Protein Biosynthesis and Maturation in the ER. Methods in Molecular Biology, 2018, 1691, 179-189.	0.9	6
82	Expression of CLAVATA3 fusions indicates rapid intracellular processing and a role of ERAD. Plant Science, 2018, 271, 67-80.	3.6	5
83	StresSeed: The Unfolded Protein Response During Seed Development. Frontiers in Plant Science, 2022, 13, 869008.	3.6	4
84	Progressive Aggregation of 16 kDa Gamma-Zein during Seed Maturation in Transgenic Arabidopsis thaliana. International Journal of Molecular Sciences, 2021, 22, 12671.	4.1	3
85	Uncovering Secretory Secrets: Inhibition of Endoplasmic Reticulum (ER) Glucosidases Suggests a Critical Role for ER Quality Control in Plant Growth and Development. Plant Cell, 2001, 13, 1260.	6.6	2
86	Influence of KDEL on the Fate of Trimeric or Assembly-Defective Phaseolin: Selective Use of an Alternative Route to Vacuoles. Plant Cell, 2001, 13, 1109.	6.6	1
87	Physical methods. Plant Molecular Biology, 2002, 50, 825-836.	3.9	1
88	More players in the plant unfolded response. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19189-19190.	7.1	1
89	The ER Folding Helpers: AÂConnection Between Protein Maturation, Stress Responses and Plant Development. Plant Cell Monographs, 2006, , 45-74.	0.4	0
90	The plant endoplasmic reticulum and quality control of secretory proteins. Current Plant Science and Biotechnology in Agriculture, 1999, , 393-396.	0.0	0