

Marisa S Otegui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9431206/publications.pdf>

Version: 2024-02-01

116
papers

7,652
citations

41258

49
h-index

56606

83
g-index

126
all docs

126
docs citations

126
times ranked

10199
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron microscopy for imaging organelles in plants and algae. <i>Plant Physiology</i> , 2022, 188, 713-725.	2.3	17
2	Fifteen compelling open questions in plant cell biology. <i>Plant Cell</i> , 2022, 34, 72-102.	3.1	27
3	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2022, 34, 10-52.	3.1	27
4	FYVE2, a phosphatidylinositol 3-phosphate effector, interacts with the COPII machinery to control autophagosome formation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2022, 34, 351-373.	3.1	19
5	Microautophagy Mediates Vacuolar Delivery of Storage Proteins in Maize Aleurone Cells. <i>Frontiers in Plant Science</i> , 2022, 13, 833612.	1.7	11
6	The Plant Cell Atlas: focusing new technologies on the kingdom that nourishes the planet. <i>Plant Physiology</i> , 2022, 188, 675-679.	2.3	7
7	Class III Peroxidases PRX01, PRX44, and PRX73 Control Root Hair Growth in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 5375.	1.8	15
8	An <i>Arabidopsis</i> Retention and Splicing complex regulates root and embryo development through pre-mRNA splicing. <i>Plant Physiology</i> , 2022, 190, 621-639.	2.3	4
9	Plant endosomes as protein sorting hubs. <i>FEBS Letters</i> , 2022, 596, 2288-2304.	1.3	11
10	Defects in autophagy lead to selective in vivo changes in turnover of cytosolic and organelle proteins in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2022, 34, 3936-3960.	3.1	7
11	Transient expression of fluorescently tagged proteins in developing maize aleurone cells. <i>MethodsX</i> , 2021, 8, 101446.	0.7	2
12	Hyperdimensional Imaging Contrast Using an Optical Fiber. <i>Sensors</i> , 2021, 21, 1201.	2.1	2
13	A plant-unique ESCRT component, FYVE4, regulates multivesicular endosome biogenesis and plant growth. <i>New Phytologist</i> , 2021, 231, 193-209.	3.5	20
14	ESCRT components ISTL1 and LIP5 are required for tapetal function and pollen viability. <i>Plant Cell</i> , 2021, 33, 2850-2868.	3.1	19
15	<i>Arabidopsis</i> vascular complexity and connectivity controls PIN-FORMED1 dynamics and lateral vein patterning during embryogenesis. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	9
16	A prion-like protein regulator of seed germination undergoes hydration-dependent phase separation. <i>Cell</i> , 2021, 184, 4284-4298.e27.	13.5	99
17	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021, 10, .	2.8	31
18	High-Pressure Freezing and Freeze Substitution for Transmission Electron Microscopy Imaging and Immunogold-Labeling. <i>Methods in Molecular Biology</i> , 2021, 2200, 337-347.	0.4	5

#	ARTICLE	IF	CITATIONS
19	Endomembrane Mediated-Trafficking Of Seed Storage Proteins: From Arabidopsis To Cereal Crops. <i>Journal of Experimental Botany</i> , 2021, , .	2.4	10
20	Electron Tomography to Analyze Vesiculation in Plant Endosomes. <i>Microscopy and Microanalysis</i> , 2020, 26, 144-145.	0.2	0
21	Synergy between the anthocyanin and RDR6/SGS3/DCL4 siRNA pathways expose hidden features of Arabidopsis carbon metabolism. <i>Nature Communications</i> , 2020, 11, 2456.	5.8	17
22	Autophagy Plays Prominent Roles in Amino Acid, Nucleotide, and Carbohydrate Metabolism during Fixed-Carbon Starvation in Maize. <i>Plant Cell</i> , 2020, 32, 2699-2724.	3.1	53
23	Electron tomography and immunogold labeling of plant cells. <i>Methods in Cell Biology</i> , 2020, 160, 21-36.	0.5	3
24	Imaging Plant Cells by High-Pressure Freezing and Serial block-face scanning electron microscopy. <i>Methods in Molecular Biology</i> , 2020, 2177, 69-81.	0.4	10
25	Reticulon proteins modulate autophagy of the endoplasmic reticulum in maize endosperm. <i>ELife</i> , 2020, 9, .	2.8	53
26	Cell-Free Protein Translation System for Expression of Lipid-Binding Proteins Tagged with Small epitopes and Their Use in Proteinâ€“Lipid Overlay Assays. <i>Methods in Molecular Biology</i> , 2020, 2177, 143-152.	0.4	0
27	Electron Tomography and Immunogold Labeling as Tools to Analyze De Novo Assembly of Plant Cell Walls. <i>Methods in Molecular Biology</i> , 2020, 2149, 365-382.	0.4	2
28	Purification of Plant ESCRT Proteins for Polyclonal Antibody Production. <i>Methods in Molecular Biology</i> , 2019, 1998, 227-238.	0.4	0
29	Genetic Analyses of the Arabidopsis ATG1 Kinase Complex Reveal Both Kinase-Dependent and Independent Autophagic Routes during Fixed-Carbon Starvation. <i>Plant Cell</i> , 2019, 31, 2973-2995.	3.1	97
30	Manganese co-localizes with calcium and phosphorus in Chlamydomonas acidocalcisomes and is mobilized in manganese-deficient conditions. <i>Journal of Biological Chemistry</i> , 2019, 294, 17626-17641.	1.6	53
31	For <i>Microscopy</i> special issue on â€“Plant Scienceâ€™. <i>Microscopy (Oxford, England)</i> , 2019, 68, 3-3.	0.7	1
32	<i>At<scp>BUD</scp>13</i> affects preâ€“mRNA</scp> splicing and is essential for embryo development in Arabidopsis. <i>Plant Journal</i>, 2019, 98, 714-726.</i>	2.8	22
33	<i>AtU2<scp>AF</scp>65b</i> functions in abscisic acid mediated flowering via regulating the precursor messenger <scp>RNA</scp> splicing of <i>At<scp>ABI</scp>5</i> and <i>At<scp>FLC</scp></i> in <i>Arabidopsis</i>. <i>New Phytologist</i>, 2019, 223, 277-292.</i>	3.5	59
34	Electron tomography in plant cell biology. <i>Microscopy (Oxford, England)</i> , 2019, 68, 69-79.	0.7	22
35	ESCRT-mediated sorting and intraluminal vesicle concatenation in plants. <i>Biochemical Society Transactions</i> , 2018, 46, 537-545.	1.6	23
36	Vacuolar degradation of chloroplast components: autophagy and beyond. <i>Journal of Experimental Botany</i> , 2018, 69, 741-750.	2.4	72

#	ARTICLE	IF	CITATIONS
37	Vacuolar Trafficking Protein VPS38 Is Dispensable for Autophagy. <i>Plant Physiology</i> , 2018, 176, 1559-1572.	2.3	34
38	Maize multi-omics reveal roles for autophagic recycling in proteome remodelling and lipid turnover. <i>Nature Plants</i> , 2018, 4, 1056-1070.	4.7	124
39	Arabidopsis MATE 45 antagonizes local abscisic acid signaling to mediate development and abiotic stress responses. <i>Plant Direct</i> , 2018, 2, e00087.	0.8	8
40	Plant autophagy: new flavors on the menu. <i>Current Opinion in Plant Biology</i> , 2018, 46, 113-121.	3.5	47
41	Imaging Vacuolar Anthocyanins with Fluorescence Lifetime Microscopy (FLIM). <i>Methods in Molecular Biology</i> , 2018, 1789, 131-141.	0.4	3
42	Distribution of Endogenous NO Regulates Early Gravitropic Response and PIN2 Localization in Arabidopsis Roots. <i>Frontiers in Plant Science</i> , 2018, 9, 495.	1.7	21
43	Nonselective Chemical Inhibition of Sec7 Domain-Containing ARF GTPase Exchange Factors. <i>Plant Cell</i> , 2018, 30, 2573-2593.	3.1	16
44	ESCRT-mediated vesicle concatenation in plant endosomes. <i>Journal of Cell Biology</i> , 2017, 216, 2167-2177.	2.3	51
45	Fabrication approaches for the creation of physical models from microscopy data. <i>3D Printing in Medicine</i> , 2017, 3, 2.	1.7	1
46	Plant Cytokinesis: Terminology for Structures and Processes. <i>Trends in Cell Biology</i> , 2017, 27, 885-894.	3.6	155
47	Cryo-electron tomography reveals novel features of a viral RNA replication compartment. <i>ELife</i> , 2017, 6, .	2.8	89
48	Endocytosis and Endosomal Trafficking in Plants. <i>Annual Review of Plant Biology</i> , 2016, 67, 309-335.	8.6	259
49	Using fluorescence lifetime microscopy to study the subcellular localization of anthocyanins. <i>Plant Journal</i> , 2016, 88, 895-903.	2.8	19
50	Role of SKD1 Regulators LIP5 and IST1-LIKE1 in Endosomal Sorting and Plant Development. <i>Plant Physiology</i> , 2016, 171, 251-264.	2.3	61
51	Control of Anther Cell Differentiation by the Small Protein Ligand TPD1 and Its Receptor EMS1 in Arabidopsis. <i>PLoS Genetics</i> , 2016, 12, e1006147.	1.5	58
52	ER network homeostasis is critical for plant endosome streaming and endocytosis. <i>Cell Discovery</i> , 2015, 1, 15033.	3.1	39
53	Complex Regulation of Prolyl-4-Hydroxylases Impacts Root Hair Expansion. <i>Molecular Plant</i> , 2015, 8, 734-746.	3.9	70
54	<sc>TFG</sc> clusters <sc>COPII</sc>-coated transport carriers and promotes early secretory pathway organization. <i>EMBO Journal</i> , 2015, 34, 811-827.	3.5	92

#	ARTICLE	IF	CITATIONS
55	The Endosomal Protein CHARGED MULTIVESICULAR BODY PROTEIN1 Regulates the Autophagic Turnover of Plastids in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 391-402.	3.1	112
56	Abiotic stresses induce different localizations of anthocyanins in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2015, 10, e1027850.	1.2	118
57	Autophagic Recycling Plays a Central Role in Maize Nitrogen Remobilization. <i>Plant Cell</i> , 2015, 27, 1389-1408.	3.1	211
58	pH Regulation by NHX-Type Antiporters Is Required for Receptor-Mediated Protein Trafficking to the Vacuole in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 1200-1217.	3.1	126
59	Anthocyanin Vacuolar Inclusions Form by a Microautophagy Mechanism. <i>Plant Cell</i> , 2015, 27, 2545-2559.	3.1	153
60	<i>Arabidopsis</i> ALIX is required for the endosomal localization of the deubiquitinating enzyme AMSH3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5543-51.	3.3	56
61	The VASCULATURE COMPLEXITY AND CONNECTIVITY Gene Encodes a Plant-Specific Protein Required for Embryo Provasculature Development. <i>Plant Physiology</i> , 2014, 166, 889-902.	2.3	28
62	A Novel Endosomal Sorting Complex Required for Transport (ESCRT) Component in Arabidopsis thaliana Controls Cell Expansion and Development. <i>Journal of Biological Chemistry</i> , 2014, 289, 4980-4988.	1.6	42
63	Structural analysis and modeling reveals new mechanisms governing ESCRT-III spiral filament assembly. <i>Journal of Cell Biology</i> , 2014, 206, 763-777.	2.3	115
64	Not all anthocyanins are born equal: distinct patterns induced by stress in Arabidopsis. <i>Planta</i> , 2014, 240, 931-940.	1.6	129
65	Insights into the Localization and Function of the Membrane Trafficking Regulator GNOM ARF-GEF at the Golgi Apparatus in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 3062-3076.	3.1	121
66	Immunogold Labeling and Electron Tomography of Plant Endosomes. <i>Methods in Molecular Biology</i> , 2014, 1209, 63-80.	0.4	2
67	Electron Tomography of Plant Cells. , 2014, , 1-14.		1
68	The catalytic domain CysPc of the <i>DEK1</i> calpain is functionally conserved in land plants. <i>Plant Journal</i> , 2013, 75, 742-754.	2.8	27
69	MTV1 and MTV4 Encode Plant-Specific ENTH and ARF GAP Proteins That Mediate Clathrin-Dependent Trafficking of Vacuolar Cargo from the Trans-Golgi Network. <i>Plant Cell</i> , 2013, 25, 2217-2235.	3.1	60
70	ESCRT-Dependent Sorting in Late Endosomes. , 2012, , 249-270.		0
71	Methylation of a Phosphatase Specifies Dephosphorylation and Degradation of Activated Brassinosteroid Receptors. <i>Science Signaling</i> , 2011, 4, ra29.	1.6	121
72	Electron Tomography and Immunogold Labelling as Tools to Analyse De Novo Assembly of Plant Cell Walls. <i>Methods in Molecular Biology</i> , 2011, 715, 123-140.	0.4	7

#	ARTICLE	IF	CITATIONS
73	Reply: Internal Membranes in Maize Aleurone Protein Storage Vacuoles: Beyond Autophagy. <i>Plant Cell</i> , 2011, 23, 4171-4172.	3.1	0
74	Plant endosomal trafficking pathways. <i>Current Opinion in Plant Biology</i> , 2011, 14, 666-673.	3.5	140
75	Nuclear membranes control symbiotic calcium signaling of legumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14348-14353.	3.3	191
76	Delivery of Prolamins to the Protein Storage Vacuole in Maize Aleurone Cells. <i>Plant Cell</i> , 2011, 23, 769-784.	3.1	137
77	Molecular Characterization of Mutant Arabidopsis Plants with Reduced Plasma Membrane Proton Pump Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 17918-17929.	1.6	161
78	<i>Agrobacterium tumefaciens</i> -Mediated Transformation of Maize Endosperm as a Tool to Study Endosperm Cell Biology. <i>Plant Physiology</i> , 2010, 153, 624-631.	2.3	35
79	The ER-Localized TWD1 Immunophilin Is Necessary for Localization of Multidrug Resistance-Like Proteins Required for Polar Auxin Transport in <i>Arabidopsis</i> Roots. <i>Plant Cell</i> , 2010, 22, 3295-3304.	3.1	98
80	A Role for the TOC Complex in Arabidopsis Root Gravitropism. <i>Plant Physiology</i> , 2009, 149, 1896-1905.	2.3	79
81	The ESCRT-Related CHMP1A and B Proteins Mediate Multivesicular Body Sorting of Auxin Carriers in <i>Arabidopsis</i> and Are Required for Plant Development. <i>Plant Cell</i> , 2009, 21, 749-766.	3.1	193
82	Mutation of the Membrane-Associated M1 Protease APM1 Results in Distinct Embryonic and Seedling Developmental Defects in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 1693-1721.	3.1	51
83	Endosomal Functions in Plants. <i>Traffic</i> , 2008, 9, 1589-1598.	1.3	110
84	Senescence-associated vacuoles are involved in the degradation of chloroplast proteins in tobacco leaves. <i>Plant Journal</i> , 2008, 56, 196-206.	2.8	133
85	A SNARE Complex Unique to Seed Plants Is Required for Protein Storage Vacuole Biogenesis and Seed Development of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2008, 20, 3006-3021.	3.1	213
86	The Secretory System of Arabidopsis. <i>The Arabidopsis Book</i> , 2008, 6, e0116.	0.5	118
87	INCREASED SIZE EXCLUSION LIMIT2 Encodes a Putative DEVH Box RNA Helicase Involved in Plasmodesmata Function during Arabidopsis Embryogenesis. <i>Plant Cell</i> , 2007, 19, 1885-1897.	3.1	122
88	The <i>Medicago truncatula</i> DMI1 Protein Modulates Cytosolic Calcium Signaling. <i>Plant Physiology</i> , 2007, 145, 192-203.	2.3	99
89	Subcellular Localization and Functional Domain Studies of DEFECTIVE KERNEL1 in Maize and <i>Arabidopsis</i> Suggest a Model for Aleurone Cell Fate Specification Involving CRINKLY4 and SUPERNUMERARY ALEURONE LAYER1. <i>Plant Cell</i> , 2007, 19, 3127-3145.	3.1	120
90	The Arabidopsis AAA ATPase SKD1 Is Involved in Multivesicular Endosome Function and Interacts with Its Positive Regulator LYST-INTERACTING PROTEIN5. <i>Plant Cell</i> , 2007, 19, 1295-1312.	3.1	195

#	ARTICLE	IF	CITATIONS
91	Endosperm Cell Walls: Formation, Composition, and Functions. , 2007, , 159-177.		16
92	The Maize <i>Floury1</i> Gene Encodes a Novel Endoplasmic Reticulum Protein Involved in Zein Protein Body Formation. <i>Plant Cell</i> , 2007, 19, 2569-2582.	3.1	116
93	Plant Cytokinesis – Insights Gained from Electron Tomography Studies. <i>Plant Cell Monographs</i> , 2007, , 251-287.	0.4	18
94	The Ubiquitin-Specific Protease Subfamily UBP3/UBP4 Is Essential for Pollen Development and Transmission in Arabidopsis. <i>Plant Physiology</i> , 2007, 145, 801-813.	2.3	61
95	Visualization of Membrane–Cytoskeletal Interactions During Plant Cytokinesis. <i>Methods in Cell Biology</i> , 2007, 79, 221-240.	0.5	14
96	Electron Tomography in Plant Cell Biology. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 1091-1099.	4.1	7
97	The Proteolytic Processing of Seed Storage Proteins in Arabidopsis Embryo Cells Starts in the Multivesicular Bodies. <i>Plant Cell</i> , 2006, 18, 2567-2581.	3.1	188
98	A KDEL-tagged monoclonal antibody is efficiently retained in the endoplasmic reticulum in leaves, but is both partially secreted and sorted to protein storage vacuoles in seeds. <i>Plant Biotechnology Journal</i> , 2006, 4, 060606025943002-???	4.1	137
99	The protein kinase genes <i>MAP3K 1</i> and <i>MAP3K 2</i> are required for pollen viability in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2006, 48, 193-205.	2.8	38
100	A role for the RabA4b effector protein PI-4K ² 1 in polarized expansion of root hair cells in <i>Arabidopsis thaliana</i> . <i>Journal of Cell Biology</i> , 2006, 172, 991-998.	2.3	274
101	Sunflower storage proteins are transported in dense vesicles that contain proteins homologous to the pumpkin vacuolar sorting receptor PV 72. <i>Electronic Journal of Biotechnology</i> , 2006, 9, 0-0.	1.2	2
102	Senescence-associated vacuoles with intense proteolytic activity develop in leaves of <i>Arabidopsis</i> and soybean. <i>Plant Journal</i> , 2005, 41, 831-844.	2.8	296
103	Midbodies and phragmoplasts: analogous structures involved in cytokinesis. <i>Trends in Cell Biology</i> , 2005, 15, 404-413.	3.6	117
104	Electron tomographic analysis of post-meiotic cytokinesis during pollen development in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2004, 218, 501-515.	1.6	107
105	Developing Seeds of <i>Arabidopsis</i> Store Different Minerals in Two Types of Vacuoles and in the Endoplasmic Reticulum. <i>Plant Cell</i> , 2002, 14, 1311-1327.	3.1	160
106	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography[W]. <i>Plant Cell</i> , 2001, 13, 2033-2051.	3.1	175
107	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. <i>Plant Cell</i> , 2001, 13, 2033.	3.1	0
108	Cytokinesis in flowering plants: more than one way to divide a cell. <i>Current Opinion in Plant Biology</i> , 2000, 3, 493-502.	3.5	127

#	ARTICLE	IF	CITATIONS
109	Syncytial-Type Cell Plates: A Novel Kind of Cell Plate Involved in Endosperm Cellularization of Arabidopsis. <i>Plant Cell</i> , 2000, 12, 933-947.	3.1	124
110	Syncytial-Type Cell Plates: A Novel Kind of Cell Plate Involved in Endosperm Cellularization of Arabidopsis. <i>Plant Cell</i> , 2000, 12, 933.	3.1	1
111	Development of the Endosperm of <i>Myrsine laetevirens</i> (Myrsinaceae). I. Cellularization and Deposition of Cell Wall Storage Carbohydrates. <i>International Journal of Plant Sciences</i> , 1999, 160, 491-500.	0.6	9
112	Flower morphology and biology of <i>Myrsine laetevirens</i> , structural and evolutionary implications of anemophily in Myrsinaceae. <i>Nordic Journal of Botany</i> , 1999, 19, 71-85.	0.2	20
113	Development of the Endosperm of <i>Myrsine laetevirens</i> (Myrsinaceae). II. Formation of Protein and Lipid Bodies. <i>International Journal of Plant Sciences</i> , 1999, 160, 501-509.	0.6	6
114	Histological and Chemical Characterization of <i>Myrsine laetevirens</i> Seed. <i>International Journal of Plant Sciences</i> , 1998, 159, 762-772.	0.6	15
115	Secretory tissues of the flower of <i>Sanango racemosum</i> (Gesneriaceae). I. Light microscopy. <i>Acta Botanica Neerlandica</i> , 1997, 46, 413-420.	1.0	7
116	Occurrence of Perforated Ray Cells and Ray Splitting in <i>Rapanea Laetevirens</i> and <i>R. Lorentziana</i> (Myrsinaceae). <i>IAWA Journal</i> , 1994, 15, 257-263.	2.7	6