

# Gabriella Piro

## List of Publications by Year in descending order

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70  
papers

2,231  
citations

201385

27  
h-index

233125

45  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3175  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidant Composition in Cherry and High-Pigment Tomato Cultivars. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 2606-2613.	2.4	239
2	Three Pectin Methylesterase Inhibitors Protect Cell Wall Integrity for Arabidopsis Immunity to Botrytis. <i>Plant Physiology</i> , 2017, 173, 1844-1863.	2.3	165
3	Comparative genomics reveals candidate carotenoid pathway regulators of ripening watermelon fruit. <i>BMC Genomics</i> , 2013, 14, 781.	1.2	103
4	Enzyme-aided extraction of lycopene from high-pigment tomato cultivars by supercritical carbon dioxide. <i>Food Chemistry</i> , 2015, 170, 193-202.	4.2	101
5	Water stress and cell wall polysaccharides in the apical root zone of wheat cultivars varying in drought tolerance. <i>Journal of Plant Physiology</i> , 2008, 165, 1168-1180.	1.6	82
6	Secretion marker proteins and cell-wall polysaccharides move through different secretory pathways. <i>Planta</i> , 2007, 225, 1001-1017.	1.6	73
7	Seeds of pomegranate, tomato and grapes: An underestimated source of natural bioactive molecules and antioxidants from agri-food by-products. <i>Journal of Food Composition and Analysis</i> , 2017, 63, 65-72.	1.9	68
8	Vacuolar system distribution in Arabidopsis tissues, visualized using GFP fusion proteins. <i>Journal of Experimental Botany</i> , 2003, 54, 1577-1584.	2.4	67
9	Protein trafficking to the cell wall occurs through mechanisms distinguishable from default sorting in tobacco. <i>Plant Journal</i> , 2011, 65, 295-308.	2.8	66
10	Functional, textural and sensory properties of dry pasta supplemented with lyophilized tomato matrix or with durum wheat bran extracts produced by supercritical carbon dioxide or ultrasound. <i>Food Chemistry</i> , 2016, 213, 545-553.	4.2	63
11	$\beta$ -Cyclodextrin encapsulation of supercritical CO <sub>2</sub> extracted oleoresins from different plant matrices: A stability study. <i>Food Chemistry</i> , 2016, 199, 684-693.	4.2	62
12	Exposure to water stress causes changes in the biosynthesis of cell wall polysaccharides in roots of wheat cultivars varying in drought tolerance. <i>Plant Science</i> , 2003, 165, 559-569.	1.7	58
13	Optimisation of biological and physical parameters for lycopene supercritical CO <sub>2</sub> extraction from ordinary and high-pigment tomato cultivars. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 1709-1718.	1.7	55
14	Effect of drying and co-matrix addition on the yield and quality of supercritical CO <sub>2</sub> extracted pumpkin ( <i>Cucurbita moschata</i> Duch.) oil. <i>Food Chemistry</i> , 2014, 148, 314-320.	4.2	52
15	Possible Use of the Carbohydrates Present in Tomato Pomace and in Byproducts of the Supercritical Carbon Dioxide Lycopene Extraction Process as Biomass for Bioethanol Production. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3683-3692.	2.4	48
16	Application of response surface methodology (RSM) for the optimization of supercritical CO <sub>2</sub> extraction of oil from patina olive cake: Yield, content of bioactive molecules and biological effects in vivo. <i>Food Chemistry</i> , 2020, 332, 127405.	4.2	46
17	AtSYP51/52 Functions Diverge in the Post-Golgi Traffic and Differently Affect Vacuolar Sorting. <i>Molecular Plant</i> , 2013, 6, 916-930.	3.9	45
18	Shades of red: Comparative study on supercritical CO <sub>2</sub> extraction of lycopene-rich oleoresins from gac, tomato and watermelon fruits and effect of the $\beta$ -cyclodextrin clathrated extracts on cultured lung adenocarcinoma cells viability. <i>Journal of Food Composition and Analysis</i> , 2018, 65, 23-32.	1.9	44

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19	Glucomannan-synthase activity in differentiating cells of <i>Pinus sylvestris</i> L.. <i>Planta</i> , 1986, 169, 564-574.	1.6	40
20	Trafficking routes to the plant vacuole: connecting alternative and classical pathways. <i>Journal of Experimental Botany</i> , 2018, 69, 79-90.	2.4	38
21	Fractionate analysis of the phytochemical composition and antioxidant activities in advanced breeding lines of high-lycopene tomatoes. <i>Food and Function</i> , 2016, 7, 574-583.	2.1	37
22	Variation in Membrane Trafficking Linked to SNARE AtSYP51 Interaction With Aquaporin NIP1;1. <i>Frontiers in Plant Science</i> , 2018, 9, 1949.	1.7	36
23	New Insights on Plant Cell Elongation: A Role for Acetylcholine. <i>International Journal of Molecular Sciences</i> , 2014, 15, 4565-4582.	1.8	35
24	Two glycosylated vacuolar GFPs are new markers for ER-to-vacuole sorting. <i>Plant Physiology and Biochemistry</i> , 2013, 73, 337-343.	2.8	33
25	When Color Really Matters: Horticultural Performance and Functional Quality of High-Lycopene Tomatoes. <i>Critical Reviews in Plant Sciences</i> , 2018, 37, 15-53.	2.7	32
26	Antioxidants in Varieties of Chicory ( <i>Cichorium intybus</i> L.) and Wild Poppy ( <i>Papaver rhoeas</i> L.) of Southern Italy. <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	0.9	31
27	<i>Sphingomonas cynarae</i> sp. nov., a proteobacterium that produces an unusual type of sphingan. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 72-79.	0.8	30
28	Drought and Heat Differentially Affect XTH Expression and XET Activity and Action in 3-Day-Old Seedlings of Durum Wheat Cultivars with Different Stress Susceptibility. <i>Frontiers in Plant Science</i> , 2016, 7, 1686.	1.7	30
29	Ride to cell wall: <i>Arabidopsis</i> XTH11, XTH29 and XTH33 exhibit different secretion pathways and responses to heat and drought stress. <i>Plant Journal</i> , 2021, 107, 448-466.	2.8	27
30	Bioactive composition and sensory evaluation of innovative spaghetti supplemented with free or $\beta$ -cyclodextrin chlated pumpkin oil extracted by supercritical CO <sub>2</sub> . <i>Food Chemistry</i> , 2019, 294, 112-122.	4.2	24
31	Isoprenoid, Lipid, and Protein Contents in Intact Plastids Isolated from Mesocarp Cells of Traditional and High-Pigment Tomato Cultivars at Different Ripening Stages. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1764-1775.	2.4	22
32	Tomato Oil Encapsulation by $\beta$ -, $\gamma$ -, and $\delta$ -Cyclodextrins: A Comparative Study on the Formation of Supramolecular Structures, Antioxidant Activity, and Carotenoid Stability. <i>Foods</i> , 2020, 9, 1553.	1.9	22
33	Evidence for intra- and extra-protoplasmic feruloylation and cross-linking in wheat seedling roots. <i>Planta</i> , 2009, 229, 343-355.	1.6	21
34	Do polyamines contribute to plant cell wall assembly by forming amide bonds with pectins?. <i>Phytochemistry</i> , 2005, 66, 2581-2594.	1.4	19
35	A membrane-bound enzyme complex synthesising glucan and glucomannan in pine tissues. <i>Planta</i> , 1988, 175, 60-70.	1.6	17
36	Molecular dissection of <i>Phaseolus vulgaris</i> polygalacturonase-inhibiting protein 2 reveals the presence of hold/release domains affecting protein trafficking toward the cell wall. <i>Frontiers in Plant Science</i> , 2015, 6, 660.	1.7	17

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37	Effect of Brefeldin A on the synthesis and transport of cell wall polysaccharides and proteins in pea root seedlings. <i>Journal of Experimental Botany</i> , 1997, 48, 1925-1933.	2.4	16
38	Ultrastructure, chemical composition and biosynthesis of the cell wall in <i>Koliella antarctica</i> (Klebsormidiales, Chlorophyta). <i>European Journal of Phycology</i> , 2000, 35, 331-337.	0.9	16
39	Variability in the content of soluble sugars and cell wall polysaccharides in red ripe cherry and high pigment tomato cultivars. <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 1837-1844.	1.7	16
40	Subcellular compartmentalization in protoplasts from <i>Artemisia annua</i> cell cultures: Engineering attempts using a modified SNARE protein. <i>Journal of Biotechnology</i> , 2015, 202, 146-152.	1.9	16
41	Analysis of the Phytochemical Composition of Pomegranate Fruit Juices, Peels and Kernels: A Comparative Study on Four Cultivars Grown in Southern Italy. <i>Plants</i> , 2021, 10, 2521.	1.6	16
42	Green fluorescent protein reveals variability in vacuoles of three plant species. <i>Biologia Plantarum</i> , 2007, 51, 49-55.	1.9	15
43	Dynamic protein trafficking to the cell wall. <i>Plant Signaling and Behavior</i> , 2011, 6, 1012-1015.	1.2	15
44	Lipid/detergent mixed micelles as a tool for transferring antioxidant power from hydrophobic natural extracts into bio-deliverable liposome carriers: the case of lycopene rich oleoresins. <i>RSC Advances</i> , 2015, 5, 3081-3093.	1.7	15
45	Stubborn GFPs in <i>Nicotiana tabacum</i> vacuoles. <i>Plant Biosystems</i> , 2004, 138, 37-42.	0.8	13
46	Reactive oxygen species and nitric oxide affect cell wall metabolism in tobacco BY-2 cells. <i>Journal of Plant Physiology</i> , 2004, 161, 1143-1156.	1.6	12
47	Cellular Localization and Biochemical Characterization of a Chimeric Fluorescent Protein Fusion of <i>Arabidopsis</i> Cellulose Synthase-Like A2 Inserted into Golgi Membrane. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	0.8	12
48	CesA6 and PGIP2 Endocytosis Involves Different Subpopulations of TGN-Related Endosomes. <i>Frontiers in Plant Science</i> , 2020, 11, 350.	1.7	12
49	Transgenic Plants as Low-Cost Platform for Chemotherapeutic Drugs Screening. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2174-2186.	1.8	10
50	Membrane- and cell wall-associated heat shock proteins in two genotypes of barley seedlings. <i>Plant Biosystems</i> , 2000, 134, 171-178.	0.8	9
51	Glutathione S-transferase related detoxification processes are correlated with receptor-mediated vacuolar sorting mechanisms. <i>Plant Cell Reports</i> , 2017, 36, 1361-1373.	2.8	9
52	Td4IN2: A drought-responsive durum wheat ( <i>Triticum durum</i> Desf.) gene coding for a resistance like protein with serine/threonine protein kinase, nucleotide binding site and leucine rich domains. <i>Plant Physiology and Biochemistry</i> , 2017, 120, 223-231.	2.8	9
53	Sorting of GFP tagged NtSyr1, an ABA Related Syntaxin. <i>Plant Signaling and Behavior</i> , 2006, 1, 76-84.	1.2	8
54	Biosynthesis and characterization of glycoproteins in <i>Koliella antarctica</i> (Klebsormidiales.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (C	0.9	7

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55	Evaluation of glycosidic bond cleavage and formation of oxo groups in oxidized barley mixed-linkage $\beta$ -glucans using tritium labelling. <i>Food Research International</i> , 2014, 66, 115-122.	2.9	7
56	Brefeldin A: a specific inhibitor of cell wall polysaccharide biosynthesis in oat coleoptile segments. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 33-40.	2.8	6
57	In muro feruloylation and oxidative coupling in monocots. <i>Plant Signaling and Behavior</i> , 2009, 4, 228-230.	1.2	6
58	Quality and Efficacy of Tribulus terrestris as an Ingredient for Dermatological Formulations. <i>Open Dermatology Journal</i> , 2013, 7, 1-7.	0.5	6
59	The biosynthesis of exo- and cell wall-polysaccharides is sensitive to brefeldin A in the cyanobacterium <i>Leptolyngbya</i> VRUC 135. <i>Plant Biosystems</i> , 2005, 139, 107-112.	0.8	5
60	Cisplatin, Oxaliplatin, and Kiteplatin Subcellular Effects Compared in a Plant Model. <i>International Journal of Molecular Sciences</i> , 2017, 18, 306.	1.8	5
61	Actin and Microtubules Differently Contribute to Vacuolar Targeting Specificity during the Export from the ER. <i>Membranes</i> , 2021, 11, 299.	1.4	5
62	Synthesis of cell-wall glycoproteins and their characterization in oat coleoptiles. <i>Phytochemistry</i> , 1997, 45, 627-632.	1.4	4
63	Cell-wall biosynthesis in differentiating cells of pine root tips. <i>Phytochemistry</i> , 1998, 47, 1201-1206.	1.4	4
64	Assessment of sweet potato [ <i>Ipomoea batatas</i> (L.) Lam] for bioethanol production in southern Italy. <i>Plant Biosystems</i> , 2014, 148, 1117-1126.	0.8	4
65	Evaluation of <i>Ditrichia viscosa</i> performance in substrates with moderately low levels of As and Cd contamination. <i>Plant Biosystems</i> , 2020, 154, 983-989.	0.8	3
66	Role of calcium during biosynthesis, secretion and organization of cell-wall polysaccharides. <i>Giornale Botanico Italiano</i> (Florence, Italy: 1962), 1993, 127, 457-469.	0.0	1
67	Ultrastructure, chemical composition and biosynthesis of the cell wall in <i>Koliella antarctica</i> (Klebsormidiales, Chlorophyta). , 0, .		1
68	Methodological approach for the study of glycoconjugates in <i>Leptolyngbya</i> VRUC 135. <i>Plant Biosystems</i> , 2010, 144, 715-720.	0.8	0
69	Exploring <i>Artemisia annua</i> cell compartmentalization engineering. <i>Journal of Biotechnology</i> , 2014, 185, S32.	1.9	0
70	Heat stress affects XET activity in durum wheat roots: Biotechnological implications. <i>Journal of Biotechnology</i> , 2014, 185, S112-S113.	1.9	0