

# Panagiotis Apostolakos

## List of Publications by Year in descending order

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50  
papers

1,450  
citations

304368

22  
h-index

360668

35  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1165  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of the cytoskeleton in the morphogenesis and function of stomatal complexes. <i>New Phytologist</i> , 2004, 161, 613-639.	3.5	100
2	Disturbance of reactive oxygen species homeostasis induces atypical tubulin polymer formation and affects mitosis in root- $\epsilon$ tip cells of <i>Triticum turgidum</i> and <i>Arabidopsis thaliana</i> . <i>Cytoskeleton</i> , 2012, 69, 1-21.	1.0	83
3	Hyperosmotic stress-induced actin filament reorganization in leaf cells of <i>Chlorophyton comosum</i> . <i>Journal of Experimental Botany</i> , 2002, 53, 1699-1710.	2.4	64
4	The interplay between ROS and tubulin cytoskeleton in plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e28069.	1.2	62
5	Hyperosmotic Stress Induces Formation of Tubulin Macro-tubules in Root-Tip Cells of <i>Triticum turgidum</i> : Their Probable Involvement in Protoplast Volume Control. <i>Plant and Cell Physiology</i> , 2002, 43, 911-922.	1.5	59
6	Plant cell division. <i>Plant Signaling and Behavior</i> , 2012, 7, 771-778.	1.2	58
7	Aluminium effects on microtubule organization in dividing root- $\epsilon$ tip cells of <i>Triticum turgidum</i> . I. Mitotic cells. <i>New Phytologist</i> , 2000, 145, 211-224.	3.5	57
8	Cytoskeletal asymmetry in <i>Zea mays</i> subsidiary cell mother cells: A monopolar prophase microtubule half-spindle anchors the nucleus to its polar position. <i>Cytoskeleton</i> , 2006, 63, 696-709.	4.4	57
9	Sinuous ordinary epidermal cells: behind several patterns of waviness, a common morphogenetic mechanism. <i>New Phytologist</i> , 1994, 127, 771-780.	3.5	55
10	Microtubules and morphogenesis in ordinary epidermal cells of <i>Vigna sinensis</i> leaves. <i>Protoplasma</i> , 1993, 174, 91-100.	1.0	49
11	Aluminium Effects on Microtubule Organization in Dividing Root-Tip Cells of <i>Triticum turgidum</i> . II. Cytokinetic Cells. <i>Journal of Plant Research</i> , 2001, 114, 157-170.	1.2	42
12	Pre-prophase Microtubule Band and Local Wall Thickening in Guard Cell Mother Cells of Some Leguminosae. <i>Annals of Botany</i> , 1982, 50, 779-791.	1.4	40
13	The organization of F-actin in root tip cells of <i>Adiantum capillus veneris</i> throughout the cell cycle. <i>Protoplasma</i> , 1992, 170, 128-137.	1.0	35
14	Macro-tubule- $\epsilon$ dependent protoplast volume regulation in plasmolysed root- $\epsilon$ tip cells of <i>Triticum turgidum</i> : involvement of phospholipase D. <i>New Phytologist</i> , 2006, 171, 737-750.	3.5	35
15	Cortical actin filament organization in developing and functioning stomatal complexes of <i>Zea mays</i> and <i>Triticum turgidum</i> . <i>Cytoskeleton</i> , 2007, 64, 531-548.	4.4	32
16	Aluminium causes variable responses in actin filament cytoskeleton of the root tip cells of <i>Triticum turgidum</i> . <i>Protoplasma</i> , 2005, 225, 129-140.	1.0	31
17	Hyperosmotically induced accumulation of a phosphorylated p38-like MAPK involved in protoplast volume regulation of plasmolyzed wheat root cells. <i>FEBS Letters</i> , 2004, 573, 168-174.	1.3	29
18	Local differentiation of cell wall matrix polysaccharides in sinuous pavement cells: its possible involvement in the flexibility of cell shape. <i>Plant Biology</i> , 2018, 20, 223-237.	1.8	29

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19	Gamma-tubulin colocalizes with microtubule arrays and tubulin paracrystals in dividing vegetative cells of higher plants. <i>Protoplasma</i> , 2000, 210, 179-187.	1.0	28
20	Microtubule organization and cell morphogenesis in two semi-lobed cell types of <i>Adiantum capillus-veneris</i> L. leaflets. <i>New Phytologist</i> , 1993, 125, 509-520.	3.5	26
21	Spatio-temporal diversification of the cell wall matrix materials in the developing stomatal complexes of <i>Zea mays</i> . <i>Planta</i> , 2016, 244, 1125-1143.	1.6	25
22	A cortical cytoplasmic ring predicts the division plane in vacuolated cells of <i>Coleus</i> : the role of actomyosin and microtubules in the establishment and function of the division site. <i>New Phytologist</i> , 2004, 163, 271-286.	3.5	24
23	The involvement of phospholipases C and D in the asymmetric division of subsidiary cell mother cells of <i>Zea mays</i> . <i>Cytoskeleton</i> , 2008, 65, 863-875.	4.4	24
24	Early local differentiation of the cell wall matrix defines the contact sites in lobed mesophyll cells of <i>Zea mays</i> . <i>Annals of Botany</i> , 2013, 112, 1067-1081.	1.4	24
25	Organization of the endoplasmic reticulum in dividing cells of the gymnosperms <i>Pinus brutia</i> and <i>Pinus nigra</i> , and of the pterophyte <i>Asplenium nidus</i> . <i>Cell Biology International</i> , 2003, 27, 31-40.	1.4	22
26	Deliberate ROS production and auxin synergistically trigger the asymmetrical division generating the subsidiary cells in <i>Zea mays</i> stomatal complexes. <i>Protoplasma</i> , 2016, 253, 1081-1099.	1.0	22
27	Microtubule and actin filament organization during stomatal morphogenesis in the fern <i>Asplenium nidus</i> . II. Guard cells. <i>New Phytologist</i> , 1999, 141, 209-223.	3.5	21
28	Formation of an endoplasmic reticulum ring associated with acetylated microtubules in the angiosperm preprophase band. <i>Cytoskeleton</i> , 2012, 69, 252-265.	1.0	20
29	Callose implication in stomatal opening and closure in the fern <i>Asplenium nidus</i> . <i>New Phytologist</i> , 2010, 186, 623-635.	3.5	19
30	The intracellular and intercellular cross-talk during subsidiary cell formation in <i>Zea mays</i> : existing and novel components orchestrating cell polarization and asymmetric division. <i>Annals of Botany</i> , 2018, 122, 679-696.	1.4	19
31	Actomyosin is involved in the plasmolytic cycle: gliding movement of the deplasmolyzing protoplast. <i>Protoplasma</i> , 2003, 221, 245-256.	1.0	18
32	Auxin as an inducer of asymmetrical division generating the subsidiary cells in stomatal complexes of <i>Zea mays</i> . <i>Plant Signaling and Behavior</i> , 2015, 10, e984531.	1.2	18
33	Cell wall matrix polysaccharide distribution and cortical microtubule organization: two factors controlling mesophyll cell morphogenesis in land plants. <i>Annals of Botany</i> , 2016, 117, 401-419.	1.4	18
34	The role of callose in guard-cell wall differentiation and stomatal pore formation in the fern <i>Asplenium nidus</i> . <i>Annals of Botany</i> , 2009, 104, 1373-1387.	1.4	17
35	A new callose function. <i>Plant Signaling and Behavior</i> , 2010, 5, 1359-1364.	1.2	17
36	Microtubule involvement in the deposition of radial fibrillar callose arrays in stomata of the fern <i>Asplenium nidus</i> L. <i>Cytoskeleton</i> , 2009, 66, 342-349.	4.4	16

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37	Actin filament-organized local cortical endoplasmic reticulum aggregations in developing stomatal complexes of grasses. <i>Protoplasma</i> , 2011, 248, 373-390.	1.0	16
38	Phosphorylation of a p38-like <i>MAPK</i> is involved in sensing cellular redox state and drives atypical tubulin polymer assembly in angiosperms. <i>Plant, Cell and Environment</i> , 2014, 37, 1130-1143.	2.8	16
39	Callose and homogalacturonan epitope distribution in stomatal complexes of <i>Zea mays</i> and <i>Vigna sinensis</i> . <i>Protoplasma</i> , 2020, 257, 141-156.	1.0	16
40	Histochemical studies on the oil-bodies of <i>Marchantia paleacea</i> bert. <i>Protoplasma</i> , 1978, 97, 13-29.	1.0	15
41	Patterns of microtubule organization in two polyhedral cell types in the gametophyte of the liverwort <i>Marchantia paleacea</i> Bert.. <i>New Phytologist</i> , 1992, 122, 165-178.	3.5	15
42	Probable involvement of cytoskeleton in stomatal-pore formation in <i>Asplenium nidus</i> L.. <i>Protoplasma</i> , 1998, 203, 48-57.	1.0	15
43	Phospholipase C signaling involvement in microtubule assembly and activation of the mechanism regulating protoplast volume in plasmolyzed root cells of <i>Triticum turgidum</i> . <i>New Phytologist</i> , 2008, 178, 267-282.	3.5	15
44	Microtubule and actin filament organization during stomatal morphogenesis in the fern <i>Asplenium nidus</i> . <i>Protoplasma</i> , 1997, 198, 93-106.	1.0	14
45	Study of mitosis in root-tip cells of <i>Triticum turgidum</i> treated with the DNA-intercalating agent ethidium bromide. <i>Protoplasma</i> , 2000, 211, 151-164.	1.0	9
46	Nuclear and microtubular cycles in heterophasic multinuclear <i>Triticum</i> root-tip cells induced by caffeine. <i>Protoplasma</i> , 1996, 194, 164-176.	1.0	8
47	Interphase and preprophase microtubule organization in some polarized cell types of the liverwort <i>Marchantia paleacea</i> Bert.. <i>New Phytologist</i> , 1993, 124, 409-421.	3.5	7
48	ROS homeostasis as a prerequisite for the accomplishment of plant cytokinesis. <i>Protoplasma</i> , 2017, 254, 569-586.	1.0	4
49	Callose: a multifunctional (1, 3)- $\beta$ -D-glucan involved in morphogenesis and function of angiosperm stomata. <i>Journal of Biological Research</i> , 2021, 28, 17.	2.2	3
50	De-Esterified Homogalacturonan Enrichment of the Cell Wall Region Adjoining the Preprophase Cortical Cytoplasmic Zone in Some Protodermal Cell Types of Three Land Plants. <i>International Journal of Molecular Sciences</i> , 2020, 21, 81.	1.8	2