

# Basil Galatis

## List of Publications by Year in descending order

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108  
papers

3,093  
citations

126708

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docs citations

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times ranked

1554  
citing authors

#	ARTICLE	IF	CITATIONS
1	The morphogenesis of lobed plant cells in the mesophyll and epidermis: organization and distinct roles of cortical microtubules and actin filaments. <i>New Phytologist</i> , 2005, 167, 721-732.	3.5	138
2	The role of the cytoskeleton in the morphogenesis and function of stomatal complexes. <i>New Phytologist</i> , 2004, 161, 613-639.	3.5	100
3	Disturbance of reactive oxygen species homeostasis induces atypical tubulin polymer formation and affects mitosis in root-tip cells of <i>Triticum turgidum</i> and <i>Arabidopsis thaliana</i> . <i>Cytoskeleton</i> , 2012, 69, 1-21.	1.0	83
4	Microtubules and guard-cell morphogenesis in <i>Zea mays</i> L. <i>Journal of Cell Science</i> , 1980, 45, 211-244.	1.2	69
5	Hyperosmotic stress-induced actin filament reorganization in leaf cells of Chlorophyton comosum. <i>Journal of Experimental Botany</i> , 2002, 53, 1699-1710.	2.4	64
6	The interplay between ROS and tubulin cytoskeleton in plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e28069.	1.2	62
7	FINE STRUCTURAL STUDIES ON THE INTERPHASE AND DIVIDING APICAL CELLS OF SPHACELARIA TRIBULOIDES (PHAEOPHYTA)1. <i>Journal of Phycology</i> , 1983, 19, 16-30.	1.0	61
8	Hyperosmotic Stress Induces Formation of Tubulin Macrotubules 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
9	Plant cell division. <i>Plant Signaling and Behavior</i> , 2012, 7, 771-778.	1.2	58
10	Aluminium effects on microtubule organization in dividing root-tip cells of <i>Triticum turgidum</i> . I. Mitotic cells. <i>New Phytologist</i> , 2000, 145, 211-224.	3.5	57
11	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
12	Microtubules and guard-cell morphogenesis in <i>Zea mays</i> L. <i>Journal of Cell Science</i> , 1980, 45, 211-44.	1.2	57
13	The organization of microtubules in guard cell mother cells of <i>Zea mays</i> . <i>Canadian Journal of Botany</i> , 1982, 60, 1148-1166.	1.2	56
14	On the differential divisions and preprophase microtubule bands involved in the development of stomata of <i>Vigna sinensis</i> L. <i>Journal of Cell Science</i> , 1979, 37, 11-37.	1.2	56
15	Sinuous ordinary epidermal cells: behind several patterns of waviness, a common morphogenetic mechanism. <i>New Phytologist</i> , 1994, 127, 771-780.	3.5	55
16	Cytoskeleton and Morphogenesis in Brown Algae. <i>Annals of Botany</i> , 2006, 97, 679-693.	1.4	54
17	Experimental studies on the function of the cortical cytoplasmic zone of the preprophase microtubule band. <i>Protoplasma</i> , 1984, 122, 11-26.	1.0	49
18	Microtubules and morphogenesis in ordinary epidermal cells of <i>Vigna sinensis</i> leaves. <i>Protoplasma</i> , 1993, 174, 91-100.	1.0	49

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19	Microtubules and their organizing centres in differentiating guard cells of <i>Adiantum capillus veneris</i> . <i>Protoplasma</i> , 1983, 115, 176-192.	1.0	47
20	On the differential divisions and preprophase microtubule bands involved in the development of stomata of <i>Vigna sinensis</i> L. <i>Journal of Cell Science</i> , 1979, 37, 11-37.	1.2	45
21	Synchronous organization of two preprophase microtubule bands and final cell plate arrangement in subsidiary cell mother cells of some <i>Triticum</i> species. <i>Protoplasma</i> , 1983, 117, 24-39.	1.0	43
22	Immunofluorescence and electron microscopic studies of microtubule organization during the cell cycle of <i>Dictyota dichotoma</i> (Phaeophyta, Dictyotales). <i>Protoplasma</i> , 1992, 169, 75-84.	1.0	42
23	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
24	On the fine structure of differentiating mucilage papillae of <i>Marchantia</i> . <i>Canadian Journal of Botany</i> , 1977, 55, 772-795.	1.2	41
25	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
26	Microtubule organization, mesophyll cell morphogenesis, and intercellular space formation in <i>Adiantum capillus veneris</i> leaflets. <i>Protoplasma</i> , 1993, 172, 97-110.	1.0	39
27	Endoplasmic reticulum preprophase band in dividing root-tip cells of <i>Pinus brutia</i> . <i>Planta</i> , 2001, 213, 824-827.	1.6	39
28	Patterns of cortical and perinuclear microtubule organization in meristematic root cells of <i>Adiantum capillus veneris</i> . <i>Protoplasma</i> , 1991, 165, 173-188.	1.0	37
29	THE ULTRASTRUCTURAL CYTOLOGY OF THE DIFFERENTIATING GUARD CELLS OF <i>VIGNA SINENSIS</i> . <i>American Journal of Botany</i> , 1980, 67, 1243-1261.	0.8	36
30	Studies on the development of the air pores and air chambers of <i>Marchantia paleacea</i> . <i>Protoplasma</i> , 1985, 128, 120-135.	1.0	36
31	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
32	Microtubule-dependent protoplast volume regulation in plasmolysed root tip cells of <i>Triticum turgidum</i> : involvement of phospholipase D. <i>New Phytologist</i> , 2006, 171, 737-750.	3.5	35
33	Thallus development in <i>Dictyopteris membranacea</i> (Phaeophyta, Dictyotales). <i>British Phycological Journal</i> , 1988, 23, 71-88.	1.3	34
34	Altered patterns of tubulin polymerization in dividing leaf cells of <i>Chlorophyton comosum</i> after a hyperosmotic treatment. <i>New Phytologist</i> , 2001, 149, 193-207.	3.5	34
35	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
36	Microtubules in Cell Morphogenesis and Intercellular Space Formation in <i>Zea mays</i> Leaf Mesophyll and <i>Pilea cadierei</i> Epithem. <i>Journal of Plant Physiology</i> , 1991, 137, 591-601.	1.6	31

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37	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
38	The effect of taxol on <i>Triticum</i> preprophase root cells: preprophase microtubule band organization seems to depend on new microtubule assembly. <i>Protoplasma</i> , 1995, 186, 72-78.	1.0	29
39	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
40	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
41	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
42	Ultrastructural studies on the oil bodies of <i>Marchantia paleacea</i> Bert. I. Early stages of oil-body cell differentiation: origination of the oil body. <i>Canadian Journal of Botany</i> , 1978, 56, 2252-2267.	1.2	26
43	Positional inconsistency between preprophase microtubule band and final cell plate arrangement during triangular subsidiary cell and atypical hair cell formation in two <i>Triticum</i> species. <i>Canadian Journal of Botany</i> , 1984, 62, 343-359.	1.2	26
44	Tubulin conformation in microtubule-free cells of <i>Vigna sinensis</i> . <i>Protoplasma</i> , 1990, 154, 132-143.	1.0	26
45	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
46	Differentiation of stomatal meristemoids and guard cell mother cells into guard-like cells in <i>Vigna sinensis</i> leaves after colchicine treatment. <i>Planta</i> , 1977, 136, 103-114.	1.6	25
47	Ultrastructural studies on thallus development in <i>Dictyota dichotoma</i> (Phaeophyta, Dictyotales). <i>British Phycological Journal</i> , 1985, 20, 263-276.	1.3	25
48	Induction, polarity and spatial control of cytokinesis in some abnormal subsidiary cell mother cells of <i>Zea mays</i> . <i>Protoplasma</i> , 1987, 140, 26-42.	1.0	25
49	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
50	Microtubules and epithem-cell morphogenesis in hydathodes of <i>Pilea cadierei</i> . <i>Planta</i> , 1988, 176, 287-297.	1.6	24
51	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
52	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
53	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
54	Patterns of microtubule reappearance in root cells of <i>Vigna sinensis</i> recovering from a colchicine treatment. <i>Protoplasma</i> , 1991, 160, 131-143.	1.0	22

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55	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
56	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
57	Studies on the Development of the Air Pores and Air Chambers of <i>Marchantia paleacea</i> . <i>Annals of Botany</i> , 1982, 49, 377-396.	1.4	21
58	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
59	Structure and Development of Stomata on the Primary Root of <i>Ceratonia siliqua</i> L.. <i>Annals of Botany</i> , 2002, 89, 23-29.	1.4	21
60	Fine structure of vegetative cells of <i>Sphacelaria tribuloides</i> Menegh. (Phaeophyceae, Sphacelariales) with special reference to some unusual proliferations of the plasmalemma. <i>Phycologia</i> , 1977, 16, 139-151.	0.6	20
61	Cell division of binuclear cells induced by caffeine: Spindle organization and determination of division plane. <i>Journal of Plant Research</i> , 1996, 109, 265-275.	1.2	20
62	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
63	Ultrastructural studies on the oil bodies of <i>Marchantia paleacea</i> Bert. II. Advanced stages of oil-body cell differentiation: synthesis of lipophilic material. <i>Canadian Journal of Botany</i> , 1978, 56, 2268-2285.	1.2	19
64	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
65	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
66	Thallus development in <i>Halopteris filicina</i> (Phaeophyceae, Sphacelariales). <i>British Phycological Journal</i> , 1990, 25, 63-74.	1.3	18
67	Actomyosin is involved in the plasmolytic cycle: gliding movement of the deplasmolyzing protoplast. <i>Protoplasma</i> , 2003, 221, 245-256.	1.0	18
68	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
69	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
70	THE ULTRASTRUCTURAL CYTOLOGY OF THE DIFFERENTIATING GUARD CELLS OF <i>VIGNA SINENSIS</i> . , 1980, 67, 1243.		18
71	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
72	A new callose function. <i>Plant Signaling and Behavior</i> , 2010, 5, 1359-1364.	1.2	17

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73	Studies on the development of the air pores and air chambers of <i>Marchantia paleacea</i> . <i>Protoplasma</i> , 1985, 128, 136-146.	1.0	16
74	Microtubule organization and morphogenesis of stomata in caffeine-affected seedlings of <i>Zea mays</i> . <i>Protoplasma</i> , 1991, 165, 11-26.	1.0	16
75	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
76	Actin filament-organized local cortical endoplasmic reticulum aggregations in developing stomatal complexes of grasses. <i>Protoplasma</i> , 2011, 248, 373-390.	1.0	16
77	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
78	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
79	Histochemical studies on the oil-bodies of <i>Marchantia paleacea</i> bert. <i>Protoplasma</i> , 1978, 97, 13-29.	1.0	15
80	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
81	Centrosome and microtubule dynamics in apical cells of <i>Sphacelaria rigidula</i> (Phaeophyceae) treated with nocodazole. <i>Protoplasma</i> , 1997, 199, 161-172.	1.0	15
82	Probable involvement of cytoskeleton in stomatal-pore formation in <i>Asplenium nidus</i> L.. <i>Protoplasma</i> , 1998, 203, 48-57.	1.0	15
83	Phospholipase C signaling involvement in macro-tubule 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
84	Diaphragm development in cytokinetic vegetative cells of brown algae. <i>Botanica Marina</i> , 2009, 52, 150-161.	0.6	15
85	Studies on the formation of "floating" guard cell mother cells in <i>Anemia</i> . <i>Journal of Cell Science</i> , 1986, 80, 29-55.	1.2	15
86	Ultrastructural studies on zoosporogenesis of <i>Halopteris filicina</i> (Sphacelariales, Phaeophyta). <i>Phycologia</i> , 1986, 25, 358-370.	0.6	14
87	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
88	F-Actin organization during the cell cycle of <i>Sphacelaria rigidula</i> (Phaeophyceae). <i>European Journal of Phycology</i> , 2000, 35, 25-33.	0.9	13
89	Associations between microbodies and a system of cytoplasmic tubules in oil-body cells of <i>Marchantia</i> . <i>Planta</i> , 1976, 131, 217-221.	1.6	12
90	Telophase-interphase transition in taxol-treated <i>Triticum</i> root cells: cortical microtubules appear without the prior presence of a radial perinuclear array. <i>Protoplasma</i> , 1995, 188, 78-84.	1.0	11

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91	Radial F-actin configurations are involved in polarization during protoplast germination and thallus branching of <i>Macrocystis pyrifera</i> (Phaeophyceae, Laminariales). <i>Phycologia</i> , 2004, 43, 693-702.	0.6	11
92	Studies on the formation of 'floating' guard cell mother cells in <i>Anemia</i> . <i>Journal of Cell Science</i> , 1986, 80, 29-55.	1.2	11
93	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
94	The effect of taxol on centrosome function and microtubule organization in apical cells of <i>Sphacelaria rigidula</i> (Phaeophyceae). <i>Phycological Research</i> , 2001, 49, 23-34.	0.8	9
95	Aberrant sieve element differentiation in primary leaves of <i>Vigna sinensis</i> Endl. affected by colchicine. <i>New Phytologist</i> , 1991, 117, 619-631.	3.5	8
96	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
97	A unique pattern of F-actin organization supports cytokinesis in vacuolated cells of <i>Macrocystis pyrifera</i> (Phaeophyceae) gametophytes. <i>Protoplasma</i> , 2005, 226, 241-245.	1.0	8
98	Radial endoplasmic reticulum arrays co-localize with radial F-actin in polarizing cells of brown algae. <i>European Journal of Phycology</i> , 2007, 42, 253-262.	0.9	8
99	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
100	F-actin cytoskeleton and cell wall morphogenesis in brown algae. <i>Cell Biology International</i> , 2003, 27, 209-210.	1.4	7
101	Freeze-fracture studies in the brown alga <i>Asteronema rhodochortonoides</i> . <i>Protoplasma</i> , 1996, 193, 46-57.	1.0	6
102	F-actin involvement in apical cell morphogenesis of <i>Sphacelaria rigidula</i> (Phaeophyceae): mutual alignment between cortical actin filaments and cellulose microfibrils. <i>European Journal of Phycology</i> , 2000, 35, 195-203.	0.9	6
103	Microtubules and lithocyst morphogenesis in <i>Pilea cadierei</i> . <i>Canadian Journal of Botany</i> , 1989, 67, 2788-2804.	1.2	4
104	ROS homeostasis as a prerequisite for the accomplishment of plant cytokinesis. <i>Protoplasma</i> , 2017, 254, 569-586.	1.0	4
105	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
106	Polarized endoplasmic reticulum aggregations in the establishing division plane of protodermal cells of the fern <i>Asplenium nidus</i> . <i>Protoplasma</i> , 2015, 252, 181-198.	1.0	2
107	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
108	Morphogenesis of "Floating" Stomata in the Fern <i>Anemia mandioccana</i> Raddi, Stomatal Pore Formation. , 1998, , 615-618.		2