

Elison B Blancaflor

List of Publications by Year in descending order

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115
papers

8,313
citations

38742

50
h-index

48315

88
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121
all docs

121
docs citations

121
times ranked

8123
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging the Cytoskeleton in Living Plant Roots. <i>Methods in Molecular Biology</i> , 2022, 2364, 139-148.	0.9	2
2	Plant Gravitropism: From Mechanistic Insights into Plant Function on Earth to Plants Colonizing Other Worlds. <i>Methods in Molecular Biology</i> , 2022, 2368, 1-41.	0.9	10
3	A phosphorus-limitation induced, functionally conserved DUF506 protein is a repressor of root hair elongation in plants. <i>New Phytologist</i> , 2022, 233, 1153-1171.	7.3	10
4	Root traits as drivers of plant and ecosystem functioning: current understanding, pitfalls and future research needs. <i>New Phytologist</i> , 2021, 232, 1123-1158.	7.3	277
5	A Novel Putative Microtubule-Associated Protein Is Involved in Arbuscule Development during Arbuscular Mycorrhiza Formation. <i>Plant and Cell Physiology</i> , 2021, 62, 306-320.	3.1	9
6	Three-channel electrical impedance spectroscopy for field-scale root phenotyping. <i>The Plant Phenome Journal</i> , 2021, 4, e20021.	2.0	10
7	Withdrawn as duplicate: Spatial and temporal localization of SPIRRIG and WAVE/SCAR reveal roles for these proteins in actin-mediated root hair development. <i>Plant Cell</i> , 2021, , .	6.6	0
8	Spatial and temporal localization of SPIRRIG and WAVE/SCAR reveal roles for these proteins in actin-mediated root hair development. <i>Plant Cell</i> , 2021, 33, 2131-2148.	6.6	11
9	The ARP2/3 complex, acting cooperatively with Class I formins, modulates penetration resistance in Arabidopsis against powdery mildew invasion. <i>Plant Cell</i> , 2021, 33, 3151-3175.	6.6	23
10	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. <i>New Phytologist</i> , 2021, 232, 973-1122.	7.3	216
11	Chemical Genetics to Uncover Mechanisms Underlying Lipid-Mediated Signaling Events in. <i>Methods in Molecular Biology</i> , 2021, 2213, 3-16.	0.9	2
12	Seedling Chloroplast Responses Induced by N-Linolenylethanolamine Require Intact G-Protein Complexes. <i>Plant Physiology</i> , 2020, 184, 459-477.	4.8	4
13	Cell Type-Specific Imaging of Calcium Signaling in Arabidopsis thaliana Seedling Roots Using GCaMP3. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6385.	4.1	13
14	Imaging of plant current pathways for non-invasive root Phenotyping using a newly developed electrical current source density approach. <i>Plant and Soil</i> , 2020, 450, 567-584.	3.7	24
15	Silencing Folylpolylglutamate Synthetase1 (FPGS1) in Switchgrass (<i>Panicum virgatum</i> L.) Improves Lignocellulosic Biofuel Production. <i>Frontiers in Plant Science</i> , 2020, 11, 843.	3.6	6
16	Brassinosteroids Inhibit Autotropic Root Straightening by Modifying Filamentous-Actin Organization and Dynamics. <i>Frontiers in Plant Science</i> , 2020, 11, 5.	3.6	9
17	RhizoVision Crown: An Integrated Hardware and Software Platform for Root Crown Phenotyping. <i>Plant Phenomics</i> , 2020, 2020, 3074916.	5.9	74
18	TDNAscan: A Software to Identify Complete and Truncated T-DNA Insertions. <i>Frontiers in Genetics</i> , 2019, 10, 685.	2.3	24

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19	Crop breeding has increased the productivity and leaf wax n-alkane concentration in a series of five winter wheat cultivars developed over the last 60 years. <i>Journal of Plant Physiology</i> , 2019, 243, 153056.	3.5	7
20	The Nodule-Specific PLAT Domain Protein NPD1 Is Required for Nitrogen-Fixing Symbiosis. <i>Plant Physiology</i> , 2019, 180, 1480-1497.	4.8	20
21	Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 108.	6.2	18
22	Two Wheat Cultivars with Contrasting Post-Embryonic Root Biomass Differ in Shoot Re-Growth after Defoliation: Implications for Breeding Grazing Resilient Forages. <i>Plants</i> , 2019, 8, 470.	3.5	4
23	The Actomyosin System in Plant Cell Division: Lessons Learned from Microscopy and Pharmacology. <i>Plant Cell Monographs</i> , 2019, , 85-100.	0.4	4
24	ERULUS Is a Plasma Membrane-Localized Receptor-Like Kinase That Specifies Root Hair Growth by Maintaining Tip-Focused Cytoplasmic Calcium Oscillations. <i>Plant Cell</i> , 2018, 30, 1173-1177.	6.6	24
25	Two Chloroplast-Localized Proteins: AtNHR2A and AtNHR2B, Contribute to Callose Deposition During Nonhost Disease Resistance in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 1280-1290.	2.6	22
26	Plant Actin Cytoskeleton: New Functions from Old Scaffold. <i>Plant Cell Monographs</i> , 2018, , 103-137.	0.4	20
27	Geoelectrical investigation of the root-soil interaction. , 2018, , .		0
28	A chemical genetic screen uncovers a small molecule enhancer of the N-acylethanolamine degrading enzyme, fatty acid amide hydrolase, in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2017, 7, 41121.	3.3	3
29	Deletion analysis of AGD1 reveals domains crucial for its plasma membrane recruitment and function in root hair polarity. <i>Journal of Cell Science</i> , 2017, 131, .	2.0	11
30	Small acidic protein 1 and SCF TIR 1 ubiquitin proteasome pathway act in concert to induce 2,4-dichlorophenoxyacetic acid-mediated alteration of actin in <i>Arabidopsis</i> roots. <i>Plant Journal</i> , 2017, 89, 940-956.	5.7	12
31	Malonylation of Glucosylated N-Lauroylethanolamine A NEW PATHWAY THAT DETERMINES N-ACYLETHANOLAMINE METABOLIC FATE IN PLANTS. <i>Journal of Biological Chemistry</i> , 2016, 291, 27112-27121.	3.4	12
32	HLB1 Is a Tetratricopeptide Repeat Domain-Containing Protein That Operates at the Intersection of the Exocytic and Endocytic Pathways at the TGN/EE in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2016, 28, 746-769.	6.6	38
33	Fluorescence Imaging of the Cytoskeleton in Plant Roots. <i>Methods in Molecular Biology</i> , 2016, 1365, 139-153.	0.9	14
34	Loss of function of folylpolyglutamate synthetase 1 reduces lignin content and improves cell wall digestibility in <i>Arabidopsis</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 224.	6.2	27
35	Root Traits and Phenotyping Strategies for Plant Improvement. <i>Plants</i> , 2015, 4, 334-355.	3.5	274
36	Transcriptional response of <i>Arabidopsis</i> seedlings during spaceflight reveals peroxidase and cell wall remodeling genes associated with root hair development. <i>American Journal of Botany</i> , 2015, 102, 21-35.	1.7	106

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37	Effects of synthetic alkamides on Arabidopsis fatty acid amide hydrolase activity and plant development. <i>Phytochemistry</i> , 2015, 110, 58-71.	2.9	9
38	Lipoxygenase-derived 9-hydro(pero)xides of linoleoylethanolamide interact with ABA signaling to arrest root development during Arabidopsis seedling establishment. <i>Plant Journal</i> , 2015, 82, 315-327.	5.7	25
39	Interactions of Auxinic Compounds on Ca ²⁺ Signaling and Root Growth in Arabidopsis thaliana. <i>American Journal of Plant Sciences</i> , 2015, 06, 2989-3000.	0.8	2
40	The actin cytoskeleton is a suppressor of the endogenous skewing behaviour of Arabidopsis primary roots in microgravity. <i>Plant Biology</i> , 2014, 16, 142-150.	3.8	47
41	Synthesis of Phenoxyacyl-Ethanolamides and Their Effects on Fatty Acid Amide Hydrolase Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 9340-9351.	3.4	15
42	The root indeterminacy-determinacy developmental switch is operated through a folate-dependent pathway in Arabidopsis thaliana. <i>New Phytologist</i> , 2014, 202, 1223-1236.	7.3	34
43	Fluorescent protein-based reporters of the actin cytoskeleton in living plant cells: Fluorophore variant, actin binding domain, and promoter considerations. <i>Cytoskeleton</i> , 2014, 71, 311-327.	2.0	54
44	N-Acylethanolamines: lipid metabolites with functions in plant growth and development. <i>Plant Journal</i> , 2014, 79, 568-583.	5.7	60
45	Delaying Seed Germination and Improving Seedling Fixation: Lessons Learned During Science and Payload Verification Tests for Advanced Plant EXperiments (APEX) 02-1 in Space. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2014, 2, 54-67.	0.8	8
46	Regulation of plant gravity sensing and signaling by the actin cytoskeleton. <i>American Journal of Botany</i> , 2013, 100, 143-152.	1.7	88
47	Overlapping and divergent signaling pathways for ARK1 and AGD1 in the control of root hair polarity in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2013, 4, 528.	3.6	14
48	Ethanolamide Oxylipins of Linolenic Acid Can Negatively Regulate Arabidopsis Seedling Development. <i>Plant Cell</i> , 2013, 25, 3824-3840.	6.6	32
49	Divergence and Redundancy in CSLD2 and CSLD3 Function During Arabidopsis Thaliana Root Hair and Female Gametophyte Development. <i>Frontiers in Plant Science</i> , 2012, 3, 111.	3.6	40
50	Multiple Domains in MtENOD8 Protein Including the Signal Peptide Target It to The Symbiosome. <i>Plant Physiology</i> , 2012, 159, 299-310.	4.8	15
51	Overexpression of Fatty Acid Amide Hydrolase Induces Early Flowering in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2012, 3, 32.	3.6	32
52	AGD1, a class 1 ARF-GAP, acts in common signaling pathways with phosphoinositide metabolism and the actin cytoskeleton in controlling Arabidopsis root hair polarity. <i>Plant Journal</i> , 2012, 69, 1064-1076.	5.7	52
53	Migration of sperm cells during pollen tube elongation in Arabidopsis thaliana: behavior during transport, maturation and upon dissociation of male germ unit associations. <i>Planta</i> , 2011, 233, 325-332.	3.2	20
54	The Folylpolylglutamate Synthetase Plastidial Isoform Is Required for Postembryonic Root Development in Arabidopsis. <i>Plant Physiology</i> , 2011, 155, 1237-1251.	4.8	54

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55	From Model to Crop: Functional Analysis of a <i>STAY-GREEN</i> Gene in the Model Legume <i>Medicago truncatula</i> and Effective Use of the Gene for Alfalfa Improvement. <i>Plant Physiology</i> , 2011, 157, 1483-1496.	4.8	124
56	<i>N</i> -Acylethanolamine (NAE) inhibits growth in <i>Arabidopsis thaliana</i> seedlings via ABI3-dependent and -independent pathways. <i>Plant Signaling and Behavior</i> , 2011, 6, 671-679.	2.4	22
57	SCAR Mediates Light-Induced Root Elongation in <i>Arabidopsis</i> through Photoreceptors and Proteasomes. <i>Plant Cell</i> , 2011, 23, 3610-3626.	6.6	115
58	The plastidial polyglutamate synthetase and root apical meristem maintenance. <i>Plant Signaling and Behavior</i> , 2011, 6, 751-754.	2.4	5
59	Collection and Analysis of Expressed Sequence Tags Derived from Laser Capture Microdissected Switchgrass (<i>Panicum virgatum</i> L. Alamo) Vascular Tissues. <i>Bioenergy Research</i> , 2010, 3, 278-294.	3.9	15
60	TCP1 Modulates Brassinosteroid Biosynthesis by Regulating the Expression of the Key Biosynthetic Gene <i>DWARF4</i> in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010, 22, 1161-1173.	6.6	178
61	Fluorescence Resonance Energy Transfer-Sensitized Emission of Yellow Cameleon 3.60 Reveals Root Zone-Specific Calcium Signatures in <i>Arabidopsis</i> in Response to Aluminum and Other Trivalent Cations. <i>Plant Physiology</i> , 2010, 152, 1442-1458.	4.8	68
62	Fatty acid amide lipid mediators in plants. <i>Plant Science</i> , 2010, 178, 411-419.	3.6	42
63	Fatty Acid Amide Hydrolase and the Metabolism of N-Acylethanolamine Lipid Mediators in Plants. <i>Plant Cell Monographs</i> , 2010, , 293-306.	0.4	0
64	Mutations in <i>Arabidopsis</i> Fatty Acid Amide Hydrolase Reveal That Catalytic Activity Influences Growth but Not Sensitivity to Abscisic Acid or Pathogens. <i>Journal of Biological Chemistry</i> , 2009, 284, 34065-34074.	3.4	24
65	<i>Medicago truncatula</i> and <i>Glomus intraradices</i> gene expression in cortical cells harboring arbuscules in the arbuscular mycorrhizal symbiosis. <i>BMC Plant Biology</i> , 2009, 9, 10.	3.6	277
66	Sample Preparation for Fluorescence Imaging of the Cytoskeleton in Fixed and Living Plant Roots. <i>Methods in Molecular Biology</i> , 2009, 586, 157-169.	0.9	13
67	Improved imaging of actin filaments in transgenic <i>Arabidopsis</i> plants expressing a green fluorescent protein fusion to the C- and N-termini of the fimbrin actin-binding domain 2. <i>New Phytologist</i> , 2008, 177, 525-536.	7.3	140
68	Functional analysis of the <i>Arabidopsis</i> PHT4 family of intracellular phosphate transporters. <i>New Phytologist</i> , 2008, 177, 889-898.	7.3	234
69	Overexpression of a fatty acid amide hydrolase compromises innate immunity in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 56, 336-349.	5.7	58
70	Functional Analysis of the Cellulose Synthase-Like Genes <i>CSLD1</i> , <i>CSLD2</i> , and <i>CSLD4</i> in Tip-Growing <i>Arabidopsis</i> Cells. <i>Plant Physiology</i> , 2008, 148, 1238-1253.	4.8	142
71	<i>AtCHX13</i> Is a Plasma Membrane K ⁺ Transporter. <i>Plant Physiology</i> , 2008, 148, 796-807.	4.8	94
72	A Class I ADP-Ribosylation Factor GTPase-Activating Protein Is Critical for Maintaining Directional Root Hair Growth in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 147, 1659-1674.	4.8	52

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73	<i>N</i> -Acylethanolamine Metabolism Interacts with Abscisic Acid Signaling in <i>Arabidopsis thaliana</i> Seedlings. <i>Plant Cell</i> , 2007, 19, 2454-2469.	6.6	64
74	A Comparison of Hydroponics, Soil, and Root Staining Methods for Evaluation of Aluminum Tolerance in <i>Medicago truncatula</i> (Barrel Medic) Germplasm. <i>Crop Science</i> , 2007, 47, 321-328.	1.8	29
75	The <i>N</i> -Acylethanolamine-Mediated Regulatory Pathway in Plants. <i>Chemistry and Biodiversity</i> , 2007, 4, 1933-1955.	2.1	67
76	Auxin, actin and growth of the <i>Arabidopsis thaliana</i> primary root. <i>Plant Journal</i> , 2007, 50, 514-528.	5.7	259
77	Subcellular targeting and interactions among the Potato virus X TGB proteins. <i>Virology</i> , 2007, 367, 375-389.	2.4	76
78	Organization and Function of the Actin Cytoskeleton in Developing Root Cells. <i>International Review of Cytology</i> , 2006, 252, 219-264.	6.2	24
79	Spatial coordination of aluminium uptake, production of reactive oxygen species, callose production and wall rigidification in maize roots. <i>Plant, Cell and Environment</i> , 2006, 29, 1309-1318.	5.7	237
80	Manipulation of <i>Arabidopsis</i> fatty acid amide hydrolase expression modifies plant growth and sensitivity to <i>N</i> -acylethanolamines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12197-12202.	7.1	77
81	Similarities Between Endocannabinoid Signaling in Animal Systems and <i>N</i> -Acylethanolamine Metabolism in Plants. , 2006, , 205-219.		6
82	Complex regulation of <i>Arabidopsis</i> AGR1/PIN2-mediated root gravitropic response and basipetal auxin transport by cantharidin-sensitive protein phosphatases. <i>Plant Journal</i> , 2005, 42, 188-200.	5.7	87
83	Overexpression of WXP1, a putative <i>Medicago truncatula</i> AP2 domain-containing transcription factor gene, increases cuticular wax accumulation and enhances drought tolerance in transgenic alfalfa (<i>Medicago sativa</i>). <i>Plant Journal</i> , 2005, 42, 689-707.	5.7	388
84	Differential effects of two phospholipase D inhibitors, 1-butanol and <i>N</i> -acylethanolamine, on in vivo cytoskeletal organization and <i>Arabidopsis</i> seedling growth. <i>Protoplasma</i> , 2005, 226, 109-123.	2.1	92
85	The Tobacco Mosaic Virus 126-Kilodalton Protein, a Constituent of the Virus Replication Complex, Alone or within the Complex Aligns with and Traffics along Microfilaments. <i>Plant Physiology</i> , 2005, 138, 1853-1865.	4.8	179
86	The Potato Virus X TGBp2 Movement Protein Associates with Endoplasmic Reticulum-Derived Vesicles during Virus Infection. <i>Plant Physiology</i> , 2005, 138, 1877-1895.	4.8	152
87	Colocalization of L-Phenylalanine Ammonia-Lyase and Cinnamate 4-Hydroxylase for Metabolic Channeling in Phenylpropanoid Biosynthesis. <i>Plant Cell</i> , 2004, 16, 3098-3109.	6.6	291
88	Developmental anatomy and auxin response of lateral root formation in <i>Ceratopteris richardii</i> . <i>Journal of Experimental Botany</i> , 2004, 55, 685-693.	4.8	48
89	The promotion of gravitropism in <i>Arabidopsis</i> roots upon actin disruption is coupled with the extended alkalization of the columella cytoplasm and a persistent lateral auxin gradient. <i>Plant Journal</i> , 2004, 39, 113-125.	5.7	118
90	Green fluorescent protein fusions to <i>Arabidopsis</i> fimbrin 1 for spatio-temporal imaging of F-actin dynamics in roots. <i>Cytoskeleton</i> , 2004, 59, 79-93.	4.4	129

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91	Elevated levels of N-lauroylethanolamine, an endogenous constituent of desiccated seeds, disrupt normal root development in <i>Arabidopsis thaliana</i> seedlings. <i>Planta</i> , 2003, 217, 206-217.	3.2	80
92	The Potato virus X TGBp3 protein associates with the ER network for virus cell-to-cell movement. <i>Virology</i> , 2003, 309, 135-151.	2.4	96
93	The potato virus x TGBp2 protein association with the endoplasmic reticulum plays a role in but is not sufficient for viral cell-to-cell movement. <i>Virology</i> , 2003, 312, 35-48.	2.4	84
94	The promotive effect of latrunculin B on maize root gravitropism is concentration dependent. <i>Advances in Space Research</i> , 2003, 31, 2215-2220.	2.6	17
95	Plant Gravitropism. Unraveling the Ups and Downs of a Complex Process. <i>Plant Physiology</i> , 2003, 133, 1677-1690.	4.8	301
96	Enhanced Gravitropism of Roots with a Disrupted Cap Actin Cytoskeleton. <i>Plant Physiology</i> , 2003, 131, 1360-1373.	4.8	120
97	In Spite of Induced Multiple Defense Responses, Tomato Plants Infected with Cucumber mosaic virus and D Satellite RNA Succumb to Systemic Necrosis. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 467-476.	2.6	52
98	The Cytoskeleton and Gravitropism in Higher Plants. <i>Journal of Plant Growth Regulation</i> , 2002, 21, 120-136.	5.1	118
99	Microtubule organization in root cells of <i>Medicago truncatula</i> during development of an arbuscular mycorrhizal symbiosis with <i>Glomus versiforme</i> . <i>Protoplasma</i> , 2001, 217, 154-165.	2.1	76
100	Demonstration of prominent actin filaments in the root columella. <i>Planta</i> , 2001, 212, 392-403.	3.2	76
101	Changes in Root Cap pH Are Required for the Gravity Response of the <i>Arabidopsis</i> Root. <i>Plant Cell</i> , 2001, 13, 907-921.	6.6	253
102	Plant cell biology in the new millennium: new tools and new insights. <i>American Journal of Botany</i> , 2000, 87, 1547-1560.	1.7	37
103	Cortical Actin Filaments Potentially Interact with Cortical Microtubules in Regulating Polarity of Cell Expansion in Primary Roots of Maize (<i>Zea mays</i> L.). <i>Journal of Plant Growth Regulation</i> , 2000, 19, 406-414.	5.1	56
104	Methods for Detection and Identification of F-Actin in Fixed and Permeabilized Plant Tissues. , 2000, , 601-618.		11
105	The microtubule cytoskeleton does not integrate auxin transport and gravitropism in maize roots. <i>Physiologia Plantarum</i> , 1999, 105, 729-738.	5.2	39
106	Laser ablation of root cap cells: Implications for models of graviperception. <i>Advances in Space Research</i> , 1999, 24, 731-738.	2.6	24
107	Microtubules regulate tip growth and orientation in root hairs of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1999, 17, 657-665.	5.7	278
108	Alterations in the Cytoskeleton Accompany Aluminum-Induced Growth Inhibition and Morphological Changes in Primary Roots of Maize1. <i>Plant Physiology</i> , 1998, 118, 159-172.	4.8	181

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109	Mapping the Functional Roles of Cap Cells in the Response of Arabidopsis Primary Roots to Gravity1. Plant Physiology, 1998, 116, 213-222.	4.8	321
110	The Organization of the Actin Cytoskeleton in Vertical and Graviresponding Primary Roots of Maize. Plant Physiology, 1997, 113, 1447-1455.	4.8	83
111	Growth and Microtubule Orientation of Zea mays Roots Subjected to Osmotic Stress. International Journal of Plant Sciences, 1995, 156, 774-783.	1.3	57
112	Time course and auxin sensitivity of cortical microtubule reorientation in maize roots. Protoplasma, 1995, 185, 72-82.	2.1	70
113	Mechanisms of Gravity Perception in Higher Plants. , 0, , 3-19.		1
114	Fern Root Development. , 0, , 192-208.		4
115	Similarities Between Endocannabinoid Signaling in Animal Systems and N-Acylethanolamine Metabolism in Plants. , 0, , 205-219.		0