Angus s Murphy

List of Publications by Year
in descending order

63 papers	9,854 citations	57631 44 h-index	114278 63 g-index
67 all docs	67 docs citations	67 times ranked	8640 citing authors

#	Article	IF	Citations
1	PIN Proteins Perform a Rate-Limiting Function in Cellular Auxin Efflux. Science, 2006, 312, 914-918.	6.0	805
2	Plant ABC proteins â€œ a unified nomenclature and updated inventory. Trends in Plant Science, 2008, 13, 151-159.	4.3	652
3	Cellular efflux of auxin catalyzed by the Arabidopsis MDR/PGP transporter AtPGP1. Plant Journal, 2005, 44, 179-194.	2.8	496
4	Loss of an MDR Transporter in Compact Stalks of Maize br2 and Sorghum dw3 Mutants. Science, 2003, 302, 81-84.	6.0	480
5	<i>Multidrug Resistance</i>â€œlike Genes of Arabidopsis Required for Auxin Transport and Auxin-Mediated Development. Plant Cell, 2001, 13, 2441-2454.	3.1	462
6	Arabidopsis H+-PPase AVP1 Regulates Auxin-Mediated Organ Development. Science, 2005, 310, 121-125.	6.0	403
7	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H+-ATPases to Promote Cell Expansion in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 26, 2129-2142.	3.1	392
8	Interactions among PIN-FORMED and P-Glycoprotein Auxin Transporters in Arabidopsis. Plant Cell, 2007, 19, 131-147.	3.1	387
9	Auxin Transporters--Why So Many?. Cold Spring Harbor Perspectives in Biology, 2010, 2, a001552-a001552.	2.3	358
10	PGP4, an ATP Binding Cassette P-Glycoprotein, Catalyzes Auxin Transport in Arabidopsis thaliana Roots. Plant Cell, 2005, 17, 2922-2939.	3.1	328
11	Flavonoid Accumulation Patterns of Transparent Testa Mutants of Arabidopsis. Plant Physiology, 2001, 126, 536-548.	2.3	312
12	Enhanced gravi- and phototropism in plant mdr mutants mislocalizing the auxin efflux protein PIN1. Nature, 2003, 423, 999-1002.	13.7	253
13	TWISTED DWARF1, a Unique Plasma Membrane-anchored Immunophilin-like Protein, Interacts withArabidopsisMultidrug Resistance-like Transporters AtPGP1 and AtPGP19. Molecular Biology of the Cell, 2003, 14, 4238-4249.	0.9	247
14	ABCB19/PGP19 stabilises PIN1 in membrane microdomains in Arabidopsis. Plant Journal, 2009, 57, 27-44.	2.8	239
15	Functional expression and characterization of Arabidopsis ABCB, AUX 1 and PIN auxin transporters in <i>Schizosaccharomyces pombe</i>. Plant Journal, 2009, 59, 179-191.	2.8	223
16	phot1 Inhibition of ABCB19 Primes Lateral Auxin Fluxes in the Shoot Apex Required For Phototropism. PLoS Biology, 2011, 9, e1001076.	2.6	222
17	Identification, Purification, and Molecular Cloning of N-1-Naphthylphthalmic Acid-Binding Plasma Membrane-Associated Aminopeptidases from Arabidopsis. Plant Physiology, 2002, 128, 935-950.	2.3	215
18	A plasma membrane H+-ATPase is required for the formation of proanthocyanidins in the seed coat endothelium of Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2649-2654.	3.3	204

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19	Seven Things We Think We Know about Auxin Transport. Molecular Plant, 2011, 4, 487-504.	3.9	196
20	<i>Arabidopsis PIS1</i> encodes the ABCG37 transporter of auxinic compounds including the auxin precursor indole-3-butyric acid. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10749-10753.	3.3	183
21	Immunophilin-like TWISTED DWARF1 Modulates Auxin Efflux Activities of Arabidopsis P-glycoproteins*. Journal of Biological Chemistry, 2006, 281, 30603-30612.	1.6	181
22	Enhanced phosphorus nutrition in monocots and dicots overâ€expressing a phosphorusâ€responsive type I H⁺â€pyrophosphatase. Plant Biotechnology Journal, 2007, 5, 735-745.	4.1	174
23	ENDOCYTOTIC CYCLING OF PM PROTEINS. Annual Review of Plant Biology, 2005, 56, 221-251.	8.6	168
24	The Arabidopsis concentrationâ€dependent influx/efflux transporter ABCB4 regulates cellular auxin levels in the root epidermis. Plant Journal, 2012, 69, 640-654.	2.8	159
25	Cytokinin Controls Polarity of PIN1-Dependent Auxin Transport during Lateral Root Organogenesis. Current Biology, 2014, 24, 1031-1037.	1.8	152
26	Relocalization of the PIN1 Auxin Efflux Facilitator Plays a Role in Phototropic Responses. Plant Physiology, 2004, 134, 28-31.	2.3	146
27	An Arabidopsis ABC Transporter Mediates Phosphate Deficiency-Induced Remodeling of Root Architecture by Modulating Iron Homeostasis in Roots. Molecular Plant, 2017, 10, 244-259.	3.9	133
28	Shoot phototropism in higher plants: New light through old concepts. American Journal of Botany, 2013, 100, 35-46.	0.8	119
29	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. Nature Communications, 2015, 6, 7641.	5.8	119
30	MultiSite Gateway-Compatible Cell Type-Specific Gene-Inducible System for Plants. Plant Physiology, 2016, 170, 627-641.	2.3	119
31	Identifying model metal hyperaccumulating plants: germplasm analysis of 20 Brassicaceae accessions from a wide geographical area. New Phytologist, 2003, 159, 421-430.	3.5	113
32	Cytokinin response factors regulate PIN-FORMED auxin transporters. Nature Communications, 2015, 6, 8717.	5.8	108
33	Auxin minimum defines a developmental window for lateral root initiation. New Phytologist, 2011, 191, 970-983.	3.5	103
34	Brachytic2/ZmABCB1 functions in IAA export from intercalary meristems. Journal of Experimental Botany, 2010, 61, 3689-3696.	2.4	102
35	Job Sharing in the Endomembrane System: Vacuolar Acidification Requires the Combined Activity of V-ATPase and V-PPase. Plant Cell, 2015, 27, 3383-3396.	3.1	92
36	Auxin transport sites are visualized in planta using fluorescent auxin analogs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11557-11562.	3.3	75

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37	Over-expression of the Arabidopsis proton-pyrophosphatase AVP1 enhances transplant survival, root mass, and fruit development under limiting phosphorus conditions. Journal of Experimental Botany, 2014, 65, 3045-3053.	2.4	71
38	Physiological and Molecular Regulation of Adventitious Root Formation. Critical Reviews in Plant Sciences, 2015, 34, 506-521.	2.7	71
39	Auxin regulates adventitious root formation in tomato cuttings. BMC Plant Biology, 2019, 19, 435.	1.6	69
40	Sterols and sphingolipids differentially function in trafficking of the <scp>A</scp>rabidopsis <scp>ABCB</scp>19 auxin transporter. Plant Journal, 2013, 74, 37-47.	2.8	61
41	Mutation of the Membrane-Associated M1 Protease APM1 Results in Distinct Embryonic and Seedling Developmental Defects in<i>Arabidopsis</i>Â Â. Plant Cell, 2009, 21, 1693-1721.	3.1	51
42	Membrane nanodomains in plants: capturing form, function, and movement. Journal of Experimental Botany, 2015, 66, 1573-1586.	2.4	51
43	ADP1 Affects Plant Architecture by Regulating Local Auxin Biosynthesis. PLoS Genetics, 2014, 10, e1003954.	1.5	47
44	Plant Lessons: Exploring ABCB Functionality Through Structural Modeling. Frontiers in Plant Science, 2012, 2, 108.	1.7	46
45	The Potassium Transporter OsHAK5 Alters Rice Architecture via ATP-Dependent Transmembrane Auxin Fluxes. Plant Communications, 2020, 1, 100052.	3.6	40
46	Auxin Transportersâ€"A Biochemical View. Cold Spring Harbor Perspectives in Biology, 2022, 14, a039875.	2.3	35
47	The Arabidopsis ATP-BINDING CASSETTE Transporter ABCB21 Regulates Auxin Levels in Cotyledons, the Root Pericycle, and Leaves. Frontiers in Plant Science, 2019, 10, 806.	1.7	33
48	Cell wall targeted <i>in planta</i> iron accumulation enhances biomass conversion and seed iron concentration in Arabidopsis and rice. Plant Biotechnology Journal, 2016, 14, 1998-2009.	4.1	19
49	Elevated auxin and reduced cytokinin contents in rootstocks improve their performance and grafting success. Plant Biotechnology Journal, 2017, 15, 1556-1565.	4.1	19
50	An ATP-Binding Cassette Transporter, ABCB19, Regulates Leaf Position and Morphology during Phototropin1-Mediated Blue Light Responses. Plant Physiology, 2020, 184, 1601-1612.	2.3	17
51	Seasonal nitrogen remobilization and the role of auxin transport in poplar trees. Journal of Experimental Botany, 2020, 71, 4512-4530.	2.4	14
52	Measure for measure: determining, inferring and guessing auxin gradients at the root tip. Physiologia Plantarum, 2014, 151, 97-111.	2.6	12
53	Directed plant cell-wall accumulation of iron: embedding co-catalyst for efficient biomass conversion. Biotechnology for Biofuels, 2016, 9, 225.	6.2	12
54	Vesicle Trafficking: ROPâ€"RIC Roundabout. Current Biology, 2012, 22, R576-R578.	1.8	10

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55	Intercellular Transport of Auxin. , 2014, , 75-100.		10
56	Microscopic and Biochemical Visualization of Auxins in Plant Tissues. Methods in Molecular Biology, 2016, 1398, 37-53.	0.4	10
57	The Catalytic and Protein-Protein Interaction Domains Are Required for APM1 Function. Plant Physiology, 2010, 152, 2158-2172.	2.3	9
58	Linking the evolution of plant transporters to their functions. Frontiers in Plant Science, 2014, 4, 547.	1.7	8
59	Loss of Multiple ABCB Auxin Transporters Recapitulates the Major twisted dwarf 1 Phenotypes in Arabidopsis thaliana. Frontiers in Plant Science, 2022, 13, 840260.	1.7	8
60	High-resolution mapping of the Mov-1 locus in wheat by combining radiation hybrid (RH) and recombination-based mapping approaches. Theoretical and Applied Genetics, 2021, 134, 2303-2314.	1.8	4
61	National Academies report has broad support. Nature Biotechnology, 2017, 35, 304-306.	9.4	3
62	Uptake and retention of catechins by Cacoâ€2 human intestinal cells is modulated by tea formulation following simulated digestion. FASEB Journal, 2007, 21, A730.	0.2	2
63	Grand Challenge: Viewing Transporter Function in a Pointillist Landscape. Frontiers in Plant Science, 2011, 2, 14.	1.7	1