

# Astrid Wingler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9206271/publications.pdf>

Version: 2024-02-01

72  
papers

6,572  
citations

76326

40  
h-index

88630

70  
g-index

76  
all docs

76  
docs citations

76  
times ranked

7004  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sugars and the speed of life—Metabolic signals that determine plant growth, development and death. <i>Physiologia Plantarum</i> , 2022, 174, e13656.	5.2	28
2	Crops for Carbon Farming. <i>Frontiers in Plant Science</i> , 2021, 12, 636709.	3.6	57
3	The Impact of Herbage Mass on Perennial Ryegrass Swards in Autumn on Autumn and over Winter Production and Characteristics. <i>Agronomy</i> , 2021, 11, 1140.	3.0	3
4	Phenotypic plasticity masks range-wide genetic differentiation for vegetative but not reproductive traits in a short-lived plant. <i>Ecology Letters</i> , 2021, 24, 2378-2393.	6.4	21
5	Status of Phenological Research Using Sentinel-2 Data: A Review. <i>Remote Sensing</i> , 2020, 12, 2760.	4.0	96
6	Global gene flow releases invasive plants from environmental constraints on genetic diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4218-4227.	7.1	108
7	Linking integrative plant physiology with agronomy to sustain future plant production. <i>Environmental and Experimental Botany</i> , 2020, 178, 104125.	4.2	6
8	Interactions between sucrose and jasmonate signalling in the response to cold stress. <i>BMC Plant Biology</i> , 2020, 20, 176.	3.6	16
9	Effect of environmental factors on size and fecundity of field populations of <i>Impatiens glandulifera</i> . <i>Plant Ecology and Diversity</i> , 2020, 13, 413-424.	2.4	2
10	Floral uniformity through evolutionary time in a species-rich tree lineage. <i>New Phytologist</i> , 2019, 221, 1597-1608.	7.3	36
11	The Dynamic Plant: Capture, Transformation, and Management of Energy. <i>Plant Physiology</i> , 2018, 176, 961-966.	4.8	16
12	Transitioning to the Next Phase: The Role of Sugar Signaling throughout the Plant Life Cycle. <i>Plant Physiology</i> , 2018, 176, 1075-1084.	4.8	124
13	Autumn leaf phenology: discrepancies between <i>in situ</i> observations and satellite data at urban and rural sites. <i>International Journal of Remote Sensing</i> , 2018, 39, 8129-8150.	2.9	17
14	Myrteae phylogeny, calibration, biogeography and diversification patterns: Increased understanding in the most species rich tribe of Myrtaceae. <i>Molecular Phylogenetics and Evolution</i> , 2017, 109, 113-137.	2.7	110
15	Links between parallel evolution and systematic complexity in angiosperms—A case study of floral development in <i>Myrcia</i> s.l. (Myrtaceae). <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017, 24, 11-24.	2.7	26
16	Classification of intra-specific variation in plant functional strategies reveals adaptation to climate. <i>Annals of Botany</i> , 2017, 119, 1343-1352.	2.9	35
17	Limitation of Grassland Productivity by Low Temperature and Seasonality of Growth. <i>Frontiers in Plant Science</i> , 2016, 7, 1130.	3.6	39
18	Systematic and evolutionary implications of stamen position in Myrteae (Myrtaceae). <i>Botanical Journal of the Linnean Society</i> , 2015, 179, 388-402.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Adaptation to altitude affects the senescence response to chilling in the perennial plant <i>Arabis alpina</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 355-367.	4.8	36
20	Comparison of signaling interactions determining annual and perennial plant growth in response to low temperature. <i>Frontiers in Plant Science</i> , 2014, 5, 794.	3.6	56
21	How Do Sugars Regulate Plant Growth and Development? New Insight into the Role of Trehalose-6-Phosphate. <i>Molecular Plant</i> , 2013, 6, 261-274.	8.3	231
22	The Trehalose 6-Phosphate/SnRK1 Signaling Pathway Primes Growth Recovery following Relief of Sink Limitation. <i>Plant Physiology</i> , 2013, 162, 1720-1732.	4.8	162
23	Regulation of growth by the trehalose pathway. <i>Plant Signaling and Behavior</i> , 2013, 8, e26626.	2.4	24
24	The Role of Trehalose Metabolism in Chloroplast Development and Leaf Senescence. <i>Advances in Photosynthesis and Respiration</i> , 2013, , 551-565.	1.0	4
25	Trehalose 6-Phosphate Is Required for the Onset of Leaf Senescence Associated with High Carbon Availability. <i>Plant Physiology</i> , 2012, 158, 1241-1251.	4.8	180
26	Interactions Between Temperature and Sugars in the Regulation of Leaf Senescence in the Perennial Herb <i>Arabis alpina</i> . <i>Journal of Integrative Plant Biology</i> , 2012, 54, 595-605.	8.5	20
27	Overexpression of GCN2-type protein kinase in wheat has profound effects on free amino acid concentration and gene expression. <i>Plant Biotechnology Journal</i> , 2012, 10, 328-340.	8.3	41
28	Interactions between flowering and senescence regulation and the influence of low temperature in <i>Arabidopsis</i> and crop plants. <i>Annals of Applied Biology</i> , 2011, 159, 320-338.	2.5	26
29	QTL analysis for sugar-regulated leaf senescence supports flowering-dependent and -independent senescence pathways. <i>New Phytologist</i> , 2010, 185, 420-433.	7.3	49
30	Cytosolic pyruvate,orthophosphate dikinase functions in nitrogen remobilization during leaf senescence and limits individual seed growth and nitrogen content. <i>Plant Journal</i> , 2010, 62, 641-652.	5.7	129
31	Up-regulation of biosynthetic processes associated with growth by trehalose 6-phosphate. <i>Plant Signaling and Behavior</i> , 2010, 5, 386-392.	2.4	78
32	Sugars, senescence, and ageing in plants and heterotrophic organisms. <i>Journal of Experimental Botany</i> , 2009, 60, 1063-1066.	4.8	113
33	Inhibition of SNF1-Related Protein Kinase1 Activity and Regulation of Metabolic Pathways by Trehalose-6-Phosphate. <i>Plant Physiology</i> , 2009, 149, 1860-1871.	4.8	479
34	Metabolic regulation of leaf senescence: interactions of sugar signalling with biotic and abiotic stress responses. <i>Plant Biology</i> , 2008, 10, 50-62.	3.8	236
35	The wheat GCN2 signalling pathway: Does this kinase play an important role in stress signalling?. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 150, S158.	1.8	0
36	The wheat GCN2 signalling pathway: Does this kinase play an important role in stress signalling?. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 150, S191.	1.8	0

#	ARTICLE	IF	CITATIONS
37	Integration of leaf metabolism and physiology by the trehalose pathway. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 150, S195.	1.8	2
38	Genetic Variation Suggests Interaction between Cold Acclimation and Metabolic Regulation of Leaf Senescence. <i>Plant Physiology</i> , 2007, 143, 434-446.	4.8	62
39	Transcriptional or posttranscriptional regulation – how does a plant know when to senesce?. <i>New Phytologist</i> , 2007, 175, 7-9.	7.3	7
40	Effect of sugar-induced senescence on gene expression and implications for the regulation of senescence in Arabidopsis. <i>Planta</i> , 2006, 224, 556-568.	3.2	215
41	The role of sugars in integrating environmental signals during the regulation of leaf senescence. <i>Journal of Experimental Botany</i> , 2006, 57, 391-399.	4.8	363
42	Natural variation in the regulation of leaf senescence and relation to other traits in Arabidopsis. <i>Plant, Cell and Environment</i> , 2005, 28, 223-231.	5.7	67
43	Mechanisms of the light-dependent induction of cell death in tobacco plants with delayed senescence. <i>Journal of Experimental Botany</i> , 2005, 56, 2897-2905.	4.8	34
44	Characterization of Markers to Determine the Extent and Variability of Leaf Senescence in Arabidopsis. A Metabolic Profiling Approach. <i>Plant Physiology</i> , 2005, 138, 898-908.	4.8	192
45	Spatial patterns and metabolic regulation of photosynthetic parameters during leaf senescence. <i>New Phytologist</i> , 2004, 161, 781-789.	7.3	173
46	Effect of reduced arginine decarboxylase activity on salt tolerance and on polyamine formation during salt stress in Arabidopsis thaliana. <i>Physiologia Plantarum</i> , 2004, 121, 101-107.	5.2	131
47	Interactions of abscisic acid and sugar signalling in the regulation of leaf senescence. <i>Planta</i> , 2004, 219, 765-72.	3.2	137
48	Induction of Trehalase in Arabidopsis Plants Infected With the Trehalose-Producing Pathogen <i>Plasmodiophora brassicae</i> . <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 693-700.	2.6	151
49	The function of trehalose biosynthesis in plants. <i>Phytochemistry</i> , 2002, 60, 437-440.	2.9	198
50	Trehalose and Trehalase in Arabidopsis. <i>Plant Physiology</i> , 2001, 125, 1086-1093.	4.8	159
51	Trehalose metabolism in Arabidopsis: occurrence of trehalose and molecular cloning and characterization of trehalose-6-phosphate synthase homologues. <i>Journal of Experimental Botany</i> , 2001, 52, 1817-1826.	4.8	121
52	Induction of ApL3 Expression by Trehalose Complements the Starch-Deficient Arabidopsis Mutant <i>adg2-1</i> Lacking ApL1, the Large Subunit of ADP-Glucose Pyrophosphorylase. <i>Plant Physiology</i> , 2001, 126, 883-889.	4.8	61
53	Are Isocitrate Lyase and Phosphoenolpyruvate Carboxykinase Involved in Gluconeogenesis during Senescence of Barley Leaves and Cucumber Cotyledons?. <i>Plant and Cell Physiology</i> , 2000, 41, 960-967.	3.1	56
54	Photorespiration: metabolic pathways and their role in stress protection. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1517-1529.	4.0	647

#	ARTICLE	IF	CITATIONS
55	Trehalose Induces the ADP-Glucose Pyrophosphorylase Gene, <i>ApL3</i> , and Starch Synthesis in Arabidopsis. <i>Plant Physiology</i> , 2000, 124, 105-114.	4.8	168
56	Phosphoenolpyruvate Carboxykinase Is Involved in the Decarboxylation of Aspartate in the Bundle Sheath of Maize1. <i>Plant Physiology</i> , 1999, 120, 539-546.	4.8	136
57	The role of photorespiration during drought stress: an analysis utilizing barley mutants with reduced activities of photorespiratory enzymes. <i>Plant, Cell and Environment</i> , 1999, 22, 361-373.	5.7	222
58	Ammonium can stimulate nitrate and nitrite reductase in the absence of nitrate in <i>Clematis vitalba</i> . <i>Plant, Cell and Environment</i> , 1999, 22, 859-866.	5.7	46
59	Photorespiratory metabolism of glyoxylate and formate in glycine-accumulating mutants of barley and <i>Amaranthus edulis</i> . <i>Planta</i> , 1999, 207, 518-526.	3.2	63
60	Short communication. Serine: glyoxylate aminotransferase exerts no control on photosynthesis. <i>Journal of Experimental Botany</i> , 1999, 50, 719-722.	4.8	5
61	Regulation of Leaf Senescence by Cytokinin, Sugars, and Light. <i>Plant Physiology</i> , 1998, 116, 329-335.	4.8	235
62	Control of photosynthesis in barley plants with reduced activities of glycine decarboxylase. <i>Planta</i> , 1997, 202, 171-178.	3.2	50
63	Axenic mycorrhization of wild type and transgenic hybrid aspen expressing T-DNA indoleacetic acid-biosynthetic genes. <i>Trees - Structure and Function</i> , 1996, 11, 59.	1.9	51
64	Effects of varied soil nitrogen supply on Norway spruce ( <i>Picea abies</i> [L.] Karst.). <i>Plant and Soil</i> , 1996, 186, 361-369.	3.7	69
65	Effects of varied soil nitrogen supply on Norway spruce ( <i>Picea abies</i> [L.] Karst.). <i>Plant and Soil</i> , 1996, 184, 291-298.	3.7	42
66	Mycorrhiza formation on Norway spruce ( <i>Picea abies</i> ) roots affects the pathway of anaplerotic CO <sub>2</sub> fixation. <i>Physiologia Plantarum</i> , 1996, 96, 699-705.	5.2	26
67	Mycorrhiza formation on Norway spruce ( <i>Picea abies</i> ) roots affects the pathway of anaplerotic CO <sub>2</sub> fixation. <i>Physiologia Plantarum</i> , 1996, 96, 699-705.	5.2	1
68	Effects of varied soil nitrogen supply on Norway spruce ( <i>Picea abies</i> [L.] Karst.). <i>Hydrobiologia</i> , 1996, 186, 361-369.	2.0	0
69	Influence of different nutrient regimes on the regulation of carbon metabolism in Norway spruce [ <i>Picea abies</i> (L.) Karst.] seedlings. <i>New Phytologist</i> , 1994, 128, 323-330.	7.3	28
70	Determination of mannitol in ectomycorrhizal fungi and ectomycorrhizas by enzymatic micro-assays. <i>Mycorrhiza</i> , 1993, 3, 69-73.	2.8	7
71	The effect of autumn closing date on over winter tissue turnover in perennial ryegrass ( <i>Lolium</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2.9 1		
72	Effect of Exogenous Treatment with Nitric Oxide (NO) on Redox Homeostasis in Barley Seedlings ( <i>Hordeum vulgare</i> L.) Under Copper Stress. <i>Journal of Soil Science and Plant Nutrition</i> , 0, , 1.	3.4	10