

# Karen K Tanino

## List of Publications by Year in descending order

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73  
papers

2,250  
citations

236925

25  
h-index

233421

45  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction and Release of Bud Dormancy in Woody Perennials: A Science Comes of Age. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2003, 38, 911-921.	1.0	271
2	Tree seasonality in a warming climate. <i>Trends in Plant Science</i> , 2011, 16, 412-416.	8.8	228
3	Temperature-driven plasticity in growth cessation and dormancy development in deciduous woody plants: a working hypothesis suggesting how molecular and cellular function is affected by temperature during dormancy induction. <i>Plant Molecular Biology</i> , 2010, 73, 49-65.	3.9	161
4	Energy saving techniques for reducing the heating cost of conventional greenhouses. <i>Biosystems Engineering</i> , 2019, 178, 9-33.	4.3	113
5	Warm temperature accelerates short photoperiod-induced growth cessation and dormancy induction in hybrid poplar ( <i>Populus</i> spp.). <i>Trees - Structure and Function</i> , 2009, 23, 971-979.	1.9	90
6	Experiments Are Necessary in Process-Based Tree Phenology Modelling. <i>Trends in Plant Science</i> , 2019, 24, 199-209.	8.8	84
7	Injury within the crown of winter wheat seedlings after freezing and icing stress. <i>Canadian Journal of Botany</i> , 1985, 63, 432-436.	1.1	77
8	Effects of drought acclimation on drought stress resistance in potato ( <i>Solanum tuberosum</i> L.) genotypes. <i>Environmental and Experimental Botany</i> , 2016, 126, 76-89.	4.2	62
9	Development of a thermal model for simulation of supplemental heating requirements in Chinese-style solar greenhouses. <i>Computers and Electronics in Agriculture</i> , 2018, 150, 235-244.	7.7	56
10	Synchrotron Radiation Sheds Fresh Light on Plant Research: The Use of Powerful Techniques to Probe Structure and Composition of Plants. <i>Plant and Cell Physiology</i> , 2015, 56, 1252-1263.	3.1	49
11	Differential stress responses to NaCl salt application in early- and late-maturing diploid potato ( <i>Solanum</i> sp.) clones. <i>Environmental and Experimental Botany</i> , 2005, 54, 202-212.	4.2	48
12	Modeling heating demands in a Chinese-style solar greenhouse using the transient building energy simulation model TRNSYS. <i>Journal of Building Engineering</i> , 2020, 29, 101114.	3.4	48
13	Wheat flag leaf epicuticular wax morphology and composition in response to moderate drought stress are revealed by SEM, FTIR-ATR and synchrotron X-ray spectroscopy. <i>Physiologia Plantarum</i> , 2018, 162, 316-332.	5.2	44
14	The Method of ABA Application Affects Salt Stress Responses in Resistant and Sensitive Potato Lines. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 331-341.	5.1	40
15	Water Content during Abscisic Acid Induced Freezing Tolerance in Bromegrass Cells. <i>Plant Physiology</i> , 1990, 93, 460-464.	4.8	38
16	Root to shoot communication and abscisic acid in calreticulin () gene expression and salt-stress tolerance in grafted diploid potato clones. <i>Environmental and Experimental Botany</i> , 2005, 53, 323-332.	4.2	38
17	Freezing Tolerance of Winter Canola Cultivars is Best Revealed by a Prolonged Freeze Test. <i>Crop Science</i> , 2011, 51, 1988-1996.	1.8	37
18	Effect of seed size and sub-zero imbibition-temperature on the thermal time model of winterfat ( <i>Eurotia lanata</i> (Pursh) Moq.). <i>Environmental and Experimental Botany</i> , 2004, 51, 183-197.	4.2	34

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19	Tissue-specific changes in apoplastic proteins and cell wall structure during cold acclimation of winter wheat crowns. <i>Journal of Experimental Botany</i> , 2018, 69, 1221-1234.	4.8	34
20	Stable Epigenetic Variants Selected from an Induced Hypomethylated <i>Fragaria vesca</i> Population. <i>Frontiers in Plant Science</i> , 2016, 7, 1768.	3.6	33
21	A quasi-steady state model for predicting the heating requirements of conventional greenhouses in cold regions. <i>Information Processing in Agriculture</i> , 2018, 5, 33-46.	4.1	32
22	A molecular marker associated with low-temperature induction of dormancy in red osier dogwood ( <i>Cornus sericea</i> ). <i>Tree Physiology</i> , 2007, 27, 385-397.	3.1	31
23	Scion and Rootstock Effects on ABA-mediated Plant Growth Regulation and Salt Tolerance of Acclimated and Unacclimated Potato Genotypes. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 125-140.	5.1	31
24	Synchrotron based phase contrast X-ray imaging combined with FTIR spectroscopy reveals structural and biomolecular differences in spikelets play a significant role in resistance to <i>Fusarium</i> in wheat. <i>BMC Plant Biology</i> , 2015, 15, 24.	3.6	30
25	Paclobutrazol enhances minituber production in Norland potatoes. <i>Journal of Plant Growth Regulation</i> , 1995, 14, 151-155.	5.1	28
26	Heating demand and economic feasibility analysis for year-round vegetable production in Canadian Prairies greenhouses. <i>Information Processing in Agriculture</i> , 2019, 6, 81-90.	4.1	27
27	Hormones and Endodormancy Induction in Woody Plants. <i>Journal of Crop Improvement</i> , 2004, 10, 157-199.	1.7	26
28	Energy-efficient design of greenhouse for Canadian Prairies using a heating simulation model. <i>International Journal of Energy Research</i> , 2018, 42, 2263-2272.	4.5	24
29	Dissecting the Roles of Cuticular Wax in Plant Resistance to Shoot Dehydration and Low-Temperature Stress in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 1554.	4.1	24
30	Modeling Chilling Requirement and Diurnal Temperature Differences on Flowering and Yield Performance in Strawberry Crown Production. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2008, 43, 2060-2065.	1.0	24
31	<i>Allium fistulosum</i> as a novel system to investigate mechanisms of freezing resistance. <i>Physiologia Plantarum</i> , 2013, 147, 101-111.	5.2	23
32	Photoperiodic Regulation of Growth-Dormancy Cycling through Induction of Multiple Bud-“Shoot Barriers Preventing Water Transport into the Winter Buds of Norway Spruce. <i>Frontiers in Plant Science</i> , 2017, 8, 2109.	3.6	23
33	Germination of winterfat ( <i>Eurotia lanata</i> (Pursh) Moq.) seeds at reduced water potentials: testing assumptions of hydrothermal time model. <i>Environmental and Experimental Botany</i> , 2005, 53, 49-63.	4.2	22
34	Growth in continuous high air humidity increases the expression of CYP707A-genes and inhibits stomatal closure. <i>Environmental and Experimental Botany</i> , 2015, 115, 11-19.	4.2	21
35	Effect of Pot Size and Timing of Plant Growth Regulator Treatments on Growth and Tuber Yield in Greenhouse-Grown Norland and Russet Burbank Potatoes. <i>Journal of Plant Growth Regulation</i> , 1998, 17, 75-79.	5.1	19
36	Is tissue culture a viable system with which to examine environmental and hormonal regulation of cold acclimation in woody plants?. <i>Physiologia Plantarum</i> , 1998, 102, 201-209.	5.2	18

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37	Daily changes in VPD during leaf development in high air humidity increase the stomatal responsiveness to darkness and dry air. <i>Journal of Plant Physiology</i> , 2017, 211, 63-69.	3.5	18
38	Pre-plant chilling requirements for cloving of spring-planted garlic. <i>Canadian Journal of Plant Science</i> , 2000, 80, 379-384.	0.9	17
39	Sensitivity analysis of CSGHEAT model for estimation of heating consumption in a Chinese-style solar greenhouse. <i>Computers and Electronics in Agriculture</i> , 2018, 154, 99-111.	7.7	17
40	PIN FORMED 2 Modulates the Transport of Arsenite in <i>Arabidopsis thaliana</i> . <i>Plant Communications</i> , 2020, 1, 100009.	7.7	17
41	Ice segregation in the crown of winter cereals: Evidence for extraorgan and extratissue freezing. <i>Plant, Cell and Environment</i> , 2019, 42, 701-716.	5.7	15
42	Abscisic Acid-Induced Cellular Alterations During the Induction of Freezing Tolerance in Bromegrass Cells. <i>Journal of Plant Physiology</i> , 1991, 137, 619-624.	3.5	14
43	The impact of global climate change on the freezing tolerance of winter cereals in Western Canada. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 88-99.	3.5	14
44	Magnetic resonance microimaging indicates water diffusion correlates with dormancy induction in cultured hybrid poplar ( <i>Populus</i> spp.) buds. <i>Tree Physiology</i> , 2009, 29, 1269-1277.	3.1	13
45	Seedling emergence of Winterfat ( <i>Krascheninnikovia lanata</i> (Pursh) A.D.J. Meeuse & Smit) in the field and its prediction using the hydrothermal time model. <i>Journal of Arid Environments</i> , 2006, 64, 37-53.	2.4	12
46	Methodologies and Traits for Evaluating the Salt Tolerance in Diploid Potato Clones. <i>American Journal of Potato Research</i> , 2008, 85, 93-100.	0.9	12
47	Evaluation of X-Ray Fluorescence Spectroscopy as a Tool for Nutrient Analysis of Pea Seeds. <i>Crop Science</i> , 2019, 59, 2689-2700.	1.8	12
48	Image-Based Rapid Estimation of Frost Damage in Canola ( <i>Brassica napus</i> L.). <i>Canadian Journal of Remote Sensing</i> , 2018, 44, 169-175.	2.4	11
49	Tissue specific changes in elements and organic compounds of alfalfa ( <i>Medicago sativa</i> L.) cultivars differing in salt tolerance under salt stress. <i>Journal of Plant Physiology</i> , 2021, 264, 153485.	3.5	11
50	Evaluation of a cloud cover based model for estimation of hourly global solar radiation in Western Canada. <i>International Journal of Sustainable Energy</i> , 2019, 38, 64-73.	2.4	10
51	Cold and exogenous calcium alter <i>Allium fistulosum</i> cell wall pectin to depress intracellular freezing temperatures. <i>Journal of Experimental Botany</i> , 2022, 73, 3807-3822.	4.8	9
52	Evaluation of low temperature hardiness of strawberry plants under field and controlled conditions. <i>Canadian Journal of Plant Science</i> , 1993, 73, 1123-1125.	0.9	7
53	Photosynthetic responses to temperature-mediated dormancy induction in contrasting ecotypes of red-osier dogwood ( <i>Cornus sericea</i> L.). <i>Environmental and Experimental Botany</i> , 2014, 106, 221-230.	4.2	6
54	Phenotyping Plant Cellular and Tissue Level Responses to Cold with Synchrotron-Based Fourier-Transform Infrared Spectroscopy and X-Ray Computed Tomography. <i>Methods in Molecular Biology</i> , 2020, 2156, 141-159.	0.9	6

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55	Transcriptomic analysis of differentially expressed genes in leaves and roots of two alfalfa ( <i>Medicago</i> ) Tj ETQq1 1 0.784314 rgBT /Over	3.6	8
56	With a Little Help from My Cell Wall: Structural Modifications in Pectin May Play a Role to Overcome Both Dehydration Stress and Fungal Pathogens. <i>Plants</i> , 2022, 11, 385.	3.5	5
57	Abscisic Acid Increases Terrestrial Plant Cell Resistance to Hydrostatic Pressure. <i>Plant Physiology</i> , 1992, 98, 745-748.	4.8	4
58	BUD SCALE MATURATION IN SASKATOON BERRY ( <i>AMELANCHIER ALNIFOLIA</i> NUTT.) PLANTLETS FOLLOWING IN VITRO HORMONAL TREATMENTS. <i>Acta Horticulturae</i> , 2000, , 203-208.	0.2	4
59	From lab to nature: assessing injury in xylem parenchyma cells. <i>Tree Physiology</i> , 2012, 32, 815-818.	3.1	3
60	CHEMOTYPING USING SYNCHROTRON MID-INFRARED AND X-RAY SPECTROSCOPY TO IMPROVE AGRICULTURAL PRODUCTION. <i>Canadian Journal of Plant Science</i> , 2017, , .	0.9	3
61	Mapping Winterhardiness in Garden Roses. <i>Journal of the American Society for Horticultural Science</i> , 2022, 147, 216-238.	1.0	3
62	Confocal cryomicroscopic analysis and cryodynamics of endoplasmic reticulum in herbaceous plant cells. <i>Environmental and Experimental Botany</i> , 2014, 106, 44-51.	4.2	2
63	A single seed treatment mediated through reactive oxygen species increases germination, growth performance, and abiotic stress tolerance in <i>Arabidopsis</i> and rice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 2597-2608.	1.3	2
64	Elucidation of molecular and hormonal background of early growth cessation and endodormancy induction in two contrasting <i>Populus</i> hybrid cultivars. <i>BMC Plant Biology</i> , 2021, 21, 111.	3.6	2
65	Using Synchrotron FTIR and Confocal Cryomicroscopy to Explore Mechanisms of Cold Acclimation and Freezing Resistance Using a Single Cell Layer of <i>Allium fistulosum</i> L. , 2013, , 165-177.		2
66	The effect of container size on overwintering survival and growth of herbaceous perennials. <i>Canadian Journal of Plant Science</i> , 2006, 86, 817-820.	0.9	1
67	Soft X-ray Spectromicroscopy: A Versatile Tool to Probe Pristine Plant Cell Walls. <i>Microscopy and Microanalysis</i> , 2018, 24, 358-359.	0.4	1
68	Effect of location on dwarf French bean ( <i>Phaseolus vulgaris</i> L.) seed production and seedling vigour. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2020, 70, 224-232.	0.6	1
69	Diversity in Surface Microstructures of Trichomes, Epidermal Cells, and Stomata in Lentil Germplasm. <i>Frontiers in Plant Science</i> , 2021, 12, 697692.	3.6	1
70	ATTAINMENT OF VEGETATIVE MATURITY (VM), CHILLING REQUIREMENT, AND ABA LEVELS IN DOGWOOD ( <i>CORNUS SERICEA</i> L.) CLONAL ECOTYPES.. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1992, 27, 635d-635.	1.0	0
71	IN VITRO HARDENING AND BUD FORMATION IN <i>AMELANCHIER ALNIFOLIA</i> NUTT. (SASKATOON BERRY) Tj ETQq1 1 0.784314 rgBT /Over 685e-685.	1.0	0
72	Plant Growth Regulators and Yields of Seed Potatoes. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1995, 30, 853F-853.	1.0	0

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73	Advancements in Canadian horticulture. Canadian Journal of Plant Science, 2021, 101, v-v.	0.9	0