Karen K Tanino

List of Publications by Year
in descending order

73	2,250	236925 25	233421 45
papers	citations	h-index	g-index

76	76	76	2484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	With a Little Help from My Cell Wall: Structural Modifications in Pectin May Play a Role to Overcome Both Dehydration Stress and Fungal Pathogens. Plants, 2022, 11, 385.	3.5	5
2	Cold and exogenous calcium alter Allium fistulosum cell wall pectin to depress intracellular freezing temperatures. Journal of Experimental Botany, 2022, 73, 3807-3822.	4.8	9
3	Mapping Winterhardiness in Garden Roses. Journal of the American Society for Horticultural Science, 2022, 147, 216-238.	1.0	3
4	The impact of global climate change on the freezing tolerance of winter cereals in Western Canada. Journal of Agronomy and Crop Science, 2021, 207, 88-99.	3.5	14
5	Dissecting the Roles of Cuticular Wax in Plant Resistance to Shoot Dehydration and Low-Temperature Stress in Arabidopsis. International Journal of Molecular Sciences, 2021, 22, 1554.	4.1	24
6	Elucidation of molecular and hormonal background of early growth cessation and endodormancy induction in two contrasting Populus hybrid cultivars. BMC Plant Biology, 2021, 21, 111.	3.6	2
7	Diversity in Surface Microstructures of Trichomes, Epidermal Cells, and Stomata in Lentil Germplasm. Frontiers in Plant Science, 2021, 12, 697692.	3.6	1
8	Tissue specific changes in elements and organic compounds of alfalfa (Medicago sativa L.) cultivars differing in salt tolerance under salt stress. Journal of Plant Physiology, 2021, 264, 153485.	3.5	11
9	Transcriptomic analysis of differentially expressed genes in leaves and roots of two alfalfa (Medicago) Tj ETQq1 1 0.784314 rgBT /Ove	3.6	6
10	Advancements in Canadian horticulture. Canadian Journal of Plant Science, 2021, 101, v-v.	0.9	0
11	Modeling heating demands in a Chinese-style solar greenhouse using the transient building energy simulation model TRNSYS. Journal of Building Engineering, 2020, 29, 101114.	3.4	48
12	PIN FORMED 2 Modulates the Transport of Arsenite in Arabidopsis thaliana. Plant Communications, 2020, 1, 100009.	7.7	17
13	A single seed treatment mediated through reactive oxygen species increases germination, growth performance, and abiotic stress tolerance in Arabidopsis and rice. Bioscience, Biotechnology and Biochemistry, 2020, 84, 2597-2608.	1.3	2
14	Effect of location on dwarf French bean (Phaseolus vulgaris L.) seed production and seedling vigour. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2020, 70, 224-232.	0.6	1
15	Phenotyping Plant Cellular and Tissue Level Responses to Cold with Synchrotron-Based Fourier-Transform Infrared Spectroscopy and X-Ray Computed Tomography. Methods in Molecular Biology, 2020, 2156, 141-159.	0.9	6
16	Evaluation of Xâ€Ray Fluorescence Spectroscopy as a Tool for Nutrient Analysis of Pea Seeds. Crop Science, 2019, 59, 2689-2700.	1.8	12
17	Energy saving techniques for reducing the heating cost of conventional greenhouses. Biosystems Engineering, 2019, 178, 9-33.	4.3	113
18	Heating demand and economic feasibility analysis for year-round vegetable production in Canadian Prairies greenhouses. Information Processing in Agriculture, 2019, 6, 81-90.	4.1	27

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19	Ice segregation in the crown of winter cereals: Evidence for extraorgan and extratissue freezing. Plant, Cell and Environment, 2019, 42, 701-716.	5.7	15
20	Experiments Are Necessary in Process-Based Tree Phenology Modelling. Trends in Plant Science, 2019, 24, 199-209.	8.8	84
21	Evaluation of a cloud cover based model for estimation of hourly global solar radiation in Western Canada. International Journal of Sustainable Energy, 2019, 38, 64-73.	2.4	10
22	Energy-efficient design of greenhouse for Canadian Prairies using a heating simulation model. International Journal of Energy Research, 2018, 42, 2263-2272.	4.5	24
23	Tissue-specific changes in apoplastic proteins and cell wall structure during cold acclimation of winter wheat crowns. Journal of Experimental Botany, 2018, 69, 1221-1234.	4.8	34
24	A quasi-steady state model for predicting the heating requirements of conventional greenhouses in cold regions. Information Processing in Agriculture, 2018, 5, 33-46.	4.1	32
25	Development of a thermal model for simulation of supplemental heating requirements in Chinese-style solar greenhouses. Computers and Electronics in Agriculture, 2018, 150, 235-244.	7.7	56
26	Wheat flag leaf epicuticular wax morphology and composition in response to moderate drought stress are revealed by SEM, FTIRâ€ATR and synchrotron Xâ€ray spectroscopy. Physiologia Plantarum, 2018, 162, 316-332.	5.2	44
27	Image-Based Rapid Estimation of Frost Damage in Canola (Brassica napus L.). Canadian Journal of Remote Sensing, 2018, 44, 169-175.	2.4	11
28	Sensitivity analysis of CSGHEAT model for estimation of heating consumption in a Chinese-style solar greenhouse. Computers and Electronics in Agriculture, 2018, 154, 99-111.	7.7	17
29	Soft X-ray Spectromicroscopy: A Versatile Tool to Probe Pristine Plant Cell Walls. Microscopy and Microanalysis, 2018, 24, 358-359.	0.4	1
30	Daily changes in VPD during leaf development in high air humidity increase the stomatal responsiveness to darkness and dry air. Journal of Plant Physiology, 2017, 211, 63-69.	3.5	18
31	CHEMOTYPING USING SYNCHROTRON MID-INFRARED AND X-RAY SPECTROSCOPY TO IMPROVE AGRICULTURAL PRODUCTION. Canadian Journal of Plant Science, 2017, , .	0.9	3
32	Photoperiodic Regulation of Growth-Dormancy Cycling through Induction of Multiple Budâ€“Shoot Barriers Preventing Water Transport into the Winter Buds of Norway Spruce. Frontiers in Plant Science, 2017, 8, 2109.	3.6	23
33	Stable Epigenetic Variants Selected from an Induced Hypomethylated Fragaria vesca Population. Frontiers in Plant Science, 2016, 7, 1768.	3.6	33
34	Effects of drought acclimation on drought stress resistance in potato (Solanum tuberosum L.) genotypes. Environmental and Experimental Botany, 2016, 126, 76-89.	4.2	62
35	Growth in continuous high air humidity increases the expression of CYP707A-genes and inhibits stomatal closure. Environmental and Experimental Botany, 2015, 115, 11-19.	4.2	21
36	Synchrotron Radiation Sheds Fresh Light on Plant Research: The Use of Powerful Techniques to Probe Structure and Composition of Plants. Plant and Cell Physiology, 2015, 56, 1252-1263.	3.1	49

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37	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 Fusarium in wheat. BMC Plant Biology, 2015, 15, 24.	3.6	30
38	Confocal cryomicroscopic analysis and cryodynamics of endoplasmic reticulum in herbaceous plant cells. Environmental and Experimental Botany, 2014, 106, 44-51.	4.2	2
39	Photosynthetic responses to temperature-mediated dormancy induction in contrasting ecotypes of red-osier dogwood (Cornus sericea L.). Environmental and Experimental Botany, 2014, 106, 221-230.	4.2	6
40	Allium fistulosum as a novel system to investigate mechanisms of freezing resistance. Physiologia Plantarum, 2013, 147, 101-111.	5.2	23
41	Using Synchrotron FTIR and Confocal Cryomicroscopy to Explore Mechanisms of Cold Acclimation and Freezing Resistance Using a Single Cell Layer of Allium fistulosum L. , 2013, , 165-177.		2
42	From lab to nature: assessing injury in xylem parenchyma cells. Tree Physiology, 2012, 32, 815-818.	3.1	3
43	Tree seasonality in a warming climate. Trends in Plant Science, 2011, 16, 412-416.	8.8	228
44	Freezing Tolerance of Winter Canola Cultivars is Best Revealed by a Prolonged Freeze Test. Crop Science, 2011, 51, 1988-1996.	1.8	37
45	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. Plant Molecular Biology, 2010, 73, 49-65.	3.9	161
46	Magnetic resonance microimaging indicates water diffusion correlates with dormancy induction in cultured hybrid poplar (Populus spp.) buds. Tree Physiology, 2009, 29, 1269-1277.	3.1	13
47	Warm temperature accelerates short photoperiod-induced growth cessation and dormancy induction in hybrid poplar (PopulusÂÃ—Âspp.). Trees - Structure and Function, 2009, 23, 971-979.	1.9	90
48	Scion and Rootstock Effects on ABA-mediated Plant Growth Regulation and Salt Tolerance of Acclimated and Unacclimated Potato Genotypes. Journal of Plant Growth Regulation, 2008, 27, 125-140.	5.1	31
49	The Method of ABA Application Affects Salt Stress Responses in Resistant and Sensitive Potato Lines. Journal of Plant Growth Regulation, 2008, 27, 331-341.	5.1	40
50	Methodologies and Traits for Evaluating the Salt Tolerance in Diploid Potato Clones. American Journal of Potato Research, 2008, 85, 93-100.	0.9	12
51	Modeling Chilling Requirement and Diurnal Temperature Differences on Flowering and Yield Performance in Strawberry Crown Production. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 2060-2065.	1.0	24
52	A molecular marker associated with low-temperature induction of dormancy in red osier dogwood (Cornus sericea). Tree Physiology, 2007, 27, 385-397.	3.1	31
53	Seedling emergence of Winterfat (Krascheninnikovia lanata (Pursh) A.D.J. Meeuse & Smit) in the field and its prediction using the hydrothermal time model. Journal of Arid Environments, 2006, 64, 37-53.	2.4	12
54	The effect of container size on overwintering survival and growth of herbaceous perennials. Canadian Journal of Plant Science, 2006, 86, 817-820.	0.9	1

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55	Germination of winterfat (Eurotia lanata (Pursh) Moq.) seeds at reduced water potentials: testing assumptions of hydrothermal time model. Environmental and Experimental Botany, 2005, 53, 49-63.	4.2	22
56	Root to shoot communication and abscisic acid in calreticulin () gene expression and salt-stress tolerance in grafted diploid potato clones. Environmental and Experimental Botany, 2005, 53, 323-332.	4.2	38
57	Differential stress responses to NaCl salt application in early- and late-maturing diploid potato (Solanum sp.) clones. Environmental and Experimental Botany, 2005, 54, 202-212.	4.2	48
58	Effect of seed size and sub-zero imbibition-temperature on the thermal time model of winterfat (Eurotia lanata (Pursh) Moq.). Environmental and Experimental Botany, 2004, 51, 183-197.	4.2	34
59	Hormones and Endodormancy Induction in Woody Plants. Journal of Crop Improvement, 2004, 10, 157-199.	1.7	26
60	Induction and Release of Bud Dormancy in Woody Perennials: A Science Comes of Age. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 911-921.	1.0	271
61	Pre-plant chilling requirements for cloving of spring-planted garlic. Canadian Journal of Plant Science, 2000, 80, 379-384.	0.9	17
62	BUD SCALE MATURATION IN SASKATOON BERRY (AMELANCHIER ALNIFOLIA NUTT.) PLANTLETS FOLLOWING IN VITRO HORMONAL TREATMENTS. Acta Horticulturae, 2000, , 203-208.	0.2	4
63	Effect of Pot Size and Timing of Plant Growth Regulator Treatments on Growth and Tuber Yield in Greenhouse-Grown Norland and Russet Burbank Potatoes. Journal of Plant Growth Regulation, 1998, 17, 75-79.	5.1	19
64	Is tissue culture a viable system with which to examine environmental and hormonal regulation of cold acclimation in woody plants?. Physiologia Plantarum, 1998, 102, 201-209.	5.2	18
65	Paclobutrazol enhances minituber production in Norland potatoes. Journal of Plant Growth Regulation, 1995, 14, 151-155.	5.1	28
66	Plant Growth Regulators and Yields of Seed Potatoes. Hortscience: A Publication of the American Society for Hortcultural Science, 1995, 30, 853F-853.	1.0	0
67	Evaluation of low temperature hardiness of strawberry plants under field and controlled conditions. Canadian Journal of Plant Science, 1993, 73, 1123-1125.	0.9	7
68	Abscisic Acid Increases Terrestrial Plant Cell Resistance to Hydrostatic Pressure. Plant Physiology, 1992, 98, 745-748.	4.8	4
69	ATTAINMENT OF VEGETATIVE MATURITY (VM), CHILLING REQUIREMENT, AND ABA LEVELS IN DOGWOOD (CORNUS SERICEA L.) CLONAL ECOTYPES.. Hortscience: A Publication of the American Society for Hortcultural Science, 1992, 27, 635d-635.	1.0	0
70	IN VITRO HARDENING AND BUD FORMATION IN AMELANCHIER ALNIFOLIA NUTT. (SASKATOON BERRY) Tj ETQq0 0 0 rgBT /Overlock 10 1 685e-685.	1.0	0
71	Abscisic Acid-Induced Cellular Alterations During the Induction of Freezing Tolerance in Bromegrass Cells. Journal of Plant Physiology, 1991, 137, 619-624.	3.5	14
72	Water Content during Abscisic Acid Induced Freezing Tolerance in Bromegrass Cells. Plant Physiology, 1990, 93, 460-464.	4.8	38

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73	Injury within the crown of winter wheat seedlings after freezing and icing stress. Canadian Journal of Botany, 1985, 63, 432-436.	1.1	77