

Grant Cramer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

7,718
citations

41
h-index

87
g-index

90
ext. papers

9,025
ext. citations

5.1
avg, IF

5.67
L-index

#	Paper	IF	Citations
80	Phased diploid genome assembly with single-molecule real-time sequencing. <i>Nature Methods</i> , 2016 , 13, 1050-1054	21.6	1015
79	Effects of abiotic stress on plants: a systems biology perspective. <i>BMC Plant Biology</i> , 2011 , 11, 163	5.3	771
78	Displacement of ca by na from the plasmalemma of root cells : a primary response to salt stress?. <i>Plant Physiology</i> , 1985 , 79, 207-11	6.6	508
77	Water and salinity stress in grapevines: early and late changes in transcript and metabolite profiles. <i>Functional and Integrative Genomics</i> , 2007 , 7, 111-34	3.8	407
76	Water deficit alters differentially metabolic pathways affecting important flavor and quality traits in grape berries of Cabernet Sauvignon and Chardonnay. <i>BMC Genomics</i> , 2009 , 10, 212	4.5	331
75	Transcriptomic and metabolite analyses of Cabernet Sauvignon grape berry development. <i>BMC Genomics</i> , 2007 , 8, 429	4.5	321
74	Regulation of malate metabolism in grape berry and other developing fruits. <i>Phytochemistry</i> , 2009 , 70, 1329-44	4	248
73	Influx of na, k, and ca into roots of salt-stressed cotton seedlings : effects of supplemental ca. <i>Plant Physiology</i> , 1987 , 83, 510-6	6.6	242
72	Effects of NaCl and CaCl(2) on Ion Activities in Complex Nutrient Solutions and Root Growth of Cotton. <i>Plant Physiology</i> , 1986 , 81, 792-7	6.6	189
71	Tissue-specific mRNA expression profiling in grape berry tissues. <i>BMC Genomics</i> , 2007 , 8, 187	4.5	175
70	Proteomic analysis reveals differences between Vitis vinifera L. cv. Chardonnay and cv. Cabernet Sauvignon and their responses to water deficit and salinity. <i>Journal of Experimental Botany</i> , 2007 , 58, 1873-92	7	161
69	Effects of NaCl and CaCl(2) on Cell Enlargement and Cell Production in Cotton Roots. <i>Plant Physiology</i> , 1986 , 82, 1102-6	6.6	147
68	Water relations and leaf expansion: importance of time scale. <i>Journal of Experimental Botany</i> , 2000 , 51, 1495-504	7	144
67	Characterizing the grape transcriptome. Analysis of expressed sequence tags from multiple Vitis species and development of a compendium of gene expression during berry development. <i>Plant Physiology</i> , 2005 , 139, 574-97	6.6	141
66	Salinity reduces membrane-associated calcium in corn root protoplasts. <i>Plant Physiology</i> , 1987 , 83, 390-46.6		124
65	Proteomic and selected metabolite analysis of grape berry tissues under well-watered and water-deficit stress conditions. <i>Proteomics</i> , 2009 , 9, 2503-28	4.8	118
64	Transcriptomic analysis of grape (Vitis vinifera L.) leaves during and after recovery from heat stress. <i>BMC Plant Biology</i> , 2012 , 12, 174	5.3	110

63	Kinetics of Maize Leaf Elongation. <i>Journal of Experimental Botany</i> , 1991 , 42, 1417-1426	7	106
62	Kinetics of Maize Leaf Elongation. <i>Journal of Experimental Botany</i> , 1992 , 43, 857-864	7	105
61	VitisNet: "Omics" integration through grapevine molecular networks. <i>PLoS ONE</i> , 2009 , 4, e8365	3.7	105
60	Transcript abundance profiles reveal larger and more complex responses of grapevine to chilling compared to osmotic and salinity stress. <i>Functional and Integrative Genomics</i> , 2007 , 7, 317-33	3.8	103
59	Abscisic acid concentrations are correlated with leaf area reductions in two salt-stressed rapid-cycling Brassica species. <i>Plant and Soil</i> , 1996 , 179, 25-33	4.2	101
58	Optimization of protein extraction and solubilization for mature grape berry clusters. <i>Electrophoresis</i> , 2006 , 27, 1853-65	3.6	100
57	Proteomic analysis indicates massive changes in metabolism prior to the inhibition of growth and photosynthesis of grapevine (<i>Vitis vinifera</i> L.) in response to water deficit. <i>BMC Plant Biology</i> , 2013 , 13, 49	5.3	96
56	Abscisic acid is correlated with the leaf growth inhibition of four genotypes of maize differing in their response to salinity. <i>Functional Plant Biology</i> , 2002 , 29, 111-115	2.7	86
55	The basic leucine zipper transcription factor ABSCISIC ACID RESPONSE ELEMENT-BINDING FACTOR2 is an important transcriptional regulator of abscisic acid-dependent grape berry ripening processes. <i>Plant Physiology</i> , 2014 , 164, 365-83	6.6	81
54	Metabolite and transcript profiling of berry skin during fruit development elucidates differential regulation between Cabernet Sauvignon and Shiraz cultivars at branching points in the polyphenol pathway. <i>BMC Plant Biology</i> , 2014 , 14, 188	5.3	80
53	CBF4 is a unique member of the CBF transcription factor family of <i>Vitis vinifera</i> and <i>Vitis riparia</i> . <i>Plant, Cell and Environment</i> , 2008 , 31, 1-10	8.4	79
52	Compatible GLRaV-3 viral infections affect berry ripening decreasing sugar accumulation and anthocyanin biosynthesis in <i>Vitis vinifera</i> . <i>Plant Molecular Biology</i> , 2011 , 77, 261-74	4.6	78
51	Growth and mineral nutrition of six rapid-cycling Brassica species in response to seawater salinity. <i>Plant and Soil</i> , 1992 , 139, 285-294	4.2	77
50	Abiotic stress and plant responses from the whole vine to the genes. <i>Australian Journal of Grape and Wine Research</i> , 2010 , 16, 86-93	2.4	74
49	Salt Tolerance Is Not Associated With the Sodium Accumulation of Two Maize Hybrids. <i>Functional Plant Biology</i> , 1994 , 21, 675	2.7	73
48	The <i>Vitis vinifera</i> C-repeat binding protein 4 (VvCBF4) transcriptional factor enhances freezing tolerance in wine grape. <i>Plant Biotechnology Journal</i> , 2012 , 10, 105-24	11.6	69
47	Transcriptomic analysis of the late stages of grapevine (<i>Vitis vinifera</i> cv. Cabernet Sauvignon) berry ripening reveals significant induction of ethylene signaling and flavor pathways in the skin. <i>BMC Plant Biology</i> , 2014 , 14, 370	5.3	68
46	The grapevine gene nomenclature system. <i>BMC Genomics</i> , 2014 , 15, 1077	4.5	67

45	Kinetics of Root Elongation of Maize in Response to Short-Term Exposure to NaCl and Elevated Calcium Concentration. <i>Journal of Experimental Botany</i> , 1988 , 39, 1513-1522	7	67
44	Characterization of major ripening events during softening in grape: turgor, sugar accumulation, abscisic acid metabolism, colour development, and their relationship with growth. <i>Journal of Experimental Botany</i> , 2016 , 67, 709-22	7	65
43	Water deficit increases stilbene metabolism in Cabernet Sauvignon berries. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 289-97	5.7	63
42	Ion Activities in Solution in Relation to Na ⁺ Ca ²⁺ Interactions at the Plasmalemma. <i>Journal of Experimental Botany</i> , 1986 , 37, 321-330	7	58
41	Transcriptomic network analyses of leaf dehydration responses identify highly connected ABA and ethylene signaling hubs in three grapevine species differing in drought tolerance. <i>BMC Plant Biology</i> , 2016 , 16, 118	5.3	48
40	Cultivar specific metabolic changes in grapevines berry skins in relation to deficit irrigation and hydraulic behavior. <i>Plant Physiology and Biochemistry</i> , 2015 , 88, 42-52	5.4	41
39	Short day transcriptomic programming during induction of dormancy in grapevine. <i>Frontiers in Plant Science</i> , 2015 , 6, 834	6.2	35
38	Genes expressed in grapevine leaves reveal latent wood infection by the fungal pathogen <i>Neofusicoccum parvum</i> . <i>PLoS ONE</i> , 2015 , 10, e0121828	3.7	35
37	Differential effects of salinity on leaf elongation kinetics of three grass species. <i>Plant and Soil</i> , 2003 , 253, 233-244	4.2	34
36	Abscisic acid transcriptomic signaling varies with grapevine organ. <i>BMC Plant Biology</i> , 2016 , 16, 72	5.3	33
35	Identification of tissue-specific, abiotic stress-responsive gene expression patterns in wine grape (<i>Vitis vinifera</i> L.) based on curation and mining of large-scale EST data sets. <i>BMC Plant Biology</i> , 2011 , 11, 86	5.3	33
34	A rapid dehydration leaf assay reveals stomatal response differences in grapevine genotypes. <i>Horticulture Research</i> , 2014 , 1, 2	7.7	31
33	Response of abscisic acid mutants of <i>Arabidopsis</i> to salinity. <i>Functional Plant Biology</i> , 2002 , 29, 561-567	2.7	31
32	Leaf Expansion Limits Dry Matter Accumulation of Salt-Stressed Maize. <i>Functional Plant Biology</i> , 1994 , 21, 663	2.7	31
31	Polyphenolic responses of grapevine berries to light, temperature, oxidative stress, abscisic acid and jasmonic acid show specific developmental-dependent degrees of metabolic resilience to perturbation. <i>Food Chemistry</i> , 2016 , 212, 828-36	8.5	31
30	Five omic technologies are concordant in differentiating the biochemical characteristics of the berries of five grapevine (<i>Vitis vinifera</i> L.) cultivars. <i>BMC Genomics</i> , 2015 , 16, 946	4.5	30
29	The common transcriptional subnetworks of the grape berry skin in the late stages of ripening. <i>BMC Plant Biology</i> , 2017 , 17, 94	5.3	28
28	Subfunctionalization of cation/proton antiporter 1 genes in grapevine in response to salt stress in different organs. <i>Horticulture Research</i> , 2015 , 2, 15031	7.7	27

27	Responses of lettuce to salinity. I. Effects of NaCl and Na ₂ SO ₄ on growth. <i>Journal of Plant Nutrition</i> , 1986 , 9, 115-130	2.3	26
26	Towards an open grapevine information system. <i>Horticulture Research</i> , 2016 , 3, 16056	7.7	26
25	Short-term leaf elongation kinetics of maize in response to salinity are independent of the root. <i>Plant Physiology</i> , 1991 , 95, 965-7	6.6	25
24	Effect of Salinity and Nitrogen Status on Nitrogen Uptake by Tall Fescue Turf. <i>Journal of Plant Nutrition</i> , 2006 , 29, 1481-1490	2.3	19
23	Growth and ion accumulation of two rapid-cycling Brassica species differing in salt tolerance. <i>Plant and Soil</i> , 1993 , 153, 19-31	4.2	19
22	Growth, cell walls, and UDP-Glc dehydrogenase activity of <i>Arabidopsis thaliana</i> grown in elevated carbon dioxide. <i>Journal of Plant Physiology</i> , 2001 , 158, 569-576	3.6	18
21	Salt reponses of lettuce to salinity. II. Effect of calcium on growth and mineral status. <i>Journal of Plant Nutrition</i> , 1986 , 9, 131-142	2.3	17
20	Cellular responses of two rapid-cycling Brassica species, <i>B. napus</i> and <i>B. carinata</i> , to seawater salinity. <i>Physiologia Plantarum</i> , 1993 , 87, 54-60	4.6	16
19	Plant proteogenomics: from protein extraction to improved gene predictions. <i>Methods in Molecular Biology</i> , 2013 , 1002, 267-94	1.4	13
18	Kinetics of Maize Leaf Elongation : III. Silver Thiosulfate Increases the Yield Threshold of Salt-Stressed Plants, but Ethylene Is Not Involved. <i>Plant Physiology</i> , 1992 , 100, 1044-7	6.6	13
17	Relative quantification of phosphoproteomic changes in grapevine (<i>Vitis vinifera</i> L.) leaves in response to abscisic acid. <i>Horticulture Research</i> , 2016 , 3, 16029	7.7	12
16	Drought tolerance of the grapevine, <i>Vitis champinii</i> cv. Ramsey, is associated with higher photosynthesis and greater transcriptomic responsiveness of abscisic acid biosynthesis and signaling. <i>BMC Plant Biology</i> , 2020 , 20, 55	5.3	11
15	Over-accumulation of abscisic acid in transgenic tomato plants increases the risk of hydraulic failure. <i>Plant, Cell and Environment</i> , 2020 , 43, 548-562	8.4	11
14	A sense of place: transcriptomics identifies environmental signatures in Cabernet Sauvignon berry skins in the late stages of ripening. <i>BMC Plant Biology</i> , 2020 , 20, 41	5.3	10
13	Leaf water status controls day-time but not daily rates of leaf expansion in salt-treated barley.. <i>Functional Plant Biology</i> , 2000 , 27, 949	2.7	9
12	Effect of Nitrogen Status on Salinity Tolerance of Tall Fescue Turf. <i>Journal of Plant Nutrition</i> , 2006 , 29, 1491-1497	2.3	8
11	Integrating Functional Genomics With Salinity and Water Deficit Stress Responses in Wine Grape - <i>Vitis Vinifera</i> 2007 , 643-668		8
10	Transcriptomic response is more sensitive to water deficit in shoots than roots of <i>Vitis riparia</i> (Michx.). <i>BMC Plant Biology</i> , 2019 , 19, 72	5.3	7

9	Effects of sodium, potassium and calcium on salt-stressed barley. II. Elemental analysis. <i>Physiologia Plantarum</i> , 1991 , 81, 197-202	4.6	7
8	Analysis of cell wall hardening and cell wall enzymes of salt-stressed maize (<i>Zea mays</i>) leaves. <i>Functional Plant Biology</i> , 2001 , 28, 101	2.7	5
7	Effects of sodium, potassium and calcium on salt-stressed barley. I. Growth analysis. <i>Physiologia Plantarum</i> , 1990 , 80, 83-88	4.6	4
6	Transcriptomics Analysis Methods: Microarray Data Processing, Analysis and Visualization Using the Affymetrix Genechip□ <i>Vitis Vinifera</i> Genome Array 2010 , 317-334		3
5	Supplemental manganese improves the relative growth, net assimilation and photosynthetic rates of salt-stressed barley. <i>Physiologia Plantarum</i> , 1992 , 84, 600-605	4.6	3
4	The Grapevine Genome Annotation. <i>Compendium of Plant Genomes</i> , 2019 , 89-101	0.8	2
3	Corrigendum to: Abscisic acid is correlated with the leaf growth inhibition of four genotypes of maize differing in their response to salinity. <i>Functional Plant Biology</i> , 2002 , 29, 535	2.7	2
2	Early and late responses of grapevine (<i>Vitis vinifera</i> L.) to water deficit: a proteomics perspective. <i>Acta Horticulturae</i> , 2017 , 263-272	0.3	1
1	VviERF6Ls: an expanded clade in <i>Vitis</i> responds transcriptionally to abiotic and biotic stresses and berry development. <i>BMC Genomics</i> , 2020 , 21, 472	4.5	1