Kent J Bradford

List of Publications by Year
in descending order

104 papers	8,889 citations	39113 52 h-index	60403 85 g-index
110 all docs	110 docs citations	110 times ranked	7480 citing authors

#	Article	IF	Citations
1	Seed germination and vigor: ensuring crop sustainability in a changing climate. Heredity, 2022, 128, 450-459.	1.2	101
2	Ecological, (epi)genetic and physiological aspects of bet-hedging in angiosperms. Plant Reproduction, 2021, 34, 21-36.	1.3	26
3	Relationships of Brassica Seed Physical Characteristics with Germination Performance and Plant Blindness. Agriculture (Switzerland), 2021, 11, 220.	1.4	7
4	Desiccant drying prior to hermetic storage extends viability and reduces bruchid (Callosobruchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Research, 2021, 94, 101888.	1.2	5
5	Texture diversity in melon (Cucumis melo L.): Sensory and physical assessments. Postharvest Biology and Technology, 2020, 159, 111024.	2.9	27
6	Hydrothermal sensitivities of seed populations underlie fluctuations of dormancy states in an annual plant community. Ecology, 2020, 101, e02958.	1.5	27
7	A new halothermal time model describes seed germination responses to salinity across both sub- and supra-optimal temperatures. Acta Physiologiae Plantarum, 2020, 42, 1.	1.0	23
8	The dry chain: reducing postharvest losses and improving food safety in humid climates. , 2020, , 375-389.		11
9	Enhancing seed conservation in rural communities of Guatemala by implementing the dry chain concept. Biodiversity and Conservation, 2020, 29, 3997-4017.	1.2	8
10	Sensory, physicochemical and volatile compound analysis of short and long shelf-life melon (Cucumis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	20
11	Improving nutrition and immunity with dry chain and integrated pest management food technologies in LMICs. Lancet Planetary Health, The, 2020, 4, e259-e260.	5.1	1
12	Environmental resource deficit may drive the evolution of intraspecific trait variation in invasive plant populations. Oikos, 2019, 128, 171-184.	1.2	7
13	High-Resolution Analysis of the Efficiency, Heritability, and Editing Outcomes of CRISPR/Cas9-Induced Modifications of <i>NCED4</i> in Lettuce (<i>Lactuca sativa</i>). G3: Genes, Genomes, Genetics, 2018, 8, 1513-1521.	0.8	83
14	Potential impacts of desiccant-based drying and hermetic storage on the value chain for onion seeds in Nepal. Journal of Agribusiness in Developing and Emerging Economies, 2018, 8, 363-390.	1.2	6
15	The dry chain: Reducing postharvest losses and improving food safety in humid climates. Trends in Food Science and Technology, 2018, 71, 84-93.	7.8	174
16	Interpreting biological variation: seeds, populations and sensitivity thresholds. Seed Science Research, 2018, 28, 158-167.	0.8	28
17	Comprehensive Analysis of DWARF14-LIKE2 (DLK2) Reveals Its Functional Divergence from Strigolactone-Related Paralogs. Frontiers in Plant Science, 2017, 8, 1641.	1.7	61
18	Using Relative Humidity Indicator Paper to Measure Seed and Commodity Moisture Contents. Agricultural and Environmental Letters, 2016, 1, 160018.	0.8	20

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19	Genetic Variation for Thermotolerance in Lettuce Seed Germination Is Associated with Temperature-Sensitive Regulation of <i>ETHYLENE RESPONSE FACTOR1</i> (<i>ERF1</i>). Plant Physiology, 2016, 170, 472-488.	2.3	39
20	Single-seed oxygen consumption measurements and population-based threshold models link respiration and germination rates under diverse conditions. Seed Science Research, 2016, 26, 199-221.	0.8	47
21	Rapid identification of lettuce seed germination mutants by bulked segregant analysis and whole genome sequencing. Plant Journal, 2016, 88, 345-360.	2.8	42
22	<i>DELAY OF GERMINATION1</i> (<i>DOG1</i>) regulates both seed dormancy and flowering time through microRNA pathways. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2199-206.	3.3	147
23	The contribution of germination functional traits to population dynamics of a desert plant community. Ecology, 2016, 97, 250-261.	1.5	117
24	Molecular and Hormonal Regulation of Thermoinhibition of Seed Germination. , 2015, , 3-33.		16
25	Applying developmental threshold models to evolutionary ecology. Trends in Ecology and Evolution, 2015, 30, 66-77.	4.2	50
26	Seeds. , 2013, , .		745
27	Germination. , 2013, , 133-181.		88
28	Dormancy and the Control of Germination. , 2013, , 247-297.		28
29	Environmental Regulation of Dormancy and Germination. , 2013, , 299-339.		11
30	Expression of<i>9-cis-EPOXYCAROTENOID DIOXYGENASE4</i>Is Essential for Thermoinhibition of Lettuce Seed Germination but Not for Seed Development or Stress Tolerance Â. Plant Cell, 2013, 25, 884-900.	3.1	101
31	Stratification Requirements for Seed Dormancy Alleviation in a Wetland Weed. PLoS ONE, 2013, 8, e71457.	1.1	8
32	Populationâ€based threshold models describe weed germination and emergence patterns across varying temperature, moisture and oxygen conditions. Journal of Applied Ecology, 2012, 49, 1225-1236.	1.9	33
33	Oxygen interacts with priming, moisture content and temperature to affect the longevity of lettuce and onion seeds. Seed Science Research, 2011, 21, 175-185.	0.8	36
34	Gene Flow between <i>Gossypium hirsutum</i> L. and <i>Gossypium barbadense</i> L. is Asymmetric. Crop Science, 2011, 51, 298-305.	0.8	7
35	A gene encoding an abscisic acid biosynthetic enzyme (LsNCED4) collocates with the high temperature germination locus Htg6.1 in lettuce (Lactuca sp.). Theoretical and Applied Genetics, 2011, 122, 95-108.	1.8	59
36	A genetic locus and gene expression patterns associated with the priming effect on lettuce seed germination at elevated temperatures. Plant Molecular Biology, 2010, 73, 105-118.	2.0	41

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37	Quantitative trait loci associated with longevity of lettuce seeds under conventional and controlled deterioration storage conditions. Journal of Experimental Botany, 2010, 61, 4423-4436.	2.4	104
38	Shang Fa Yang: Pioneer in plant ethylene biochemistry. Plant Science, 2008, 175, 2-7.	1.7	17
39	Quantifying the sensitivity of barley seed germination to oxygen, abscisic acid, and gibberellin using a population-based threshold model. Journal of Experimental Botany, 2008, 59, 335-347.	2.4	53
40	Genetic Variation for Lettuce Seed Thermoinhibition Is Associated with Temperature-Sensitive Expression of Abscisic Acid, Gibberellin, and Ethylene Biosynthesis, Metabolism, and Response Genes Â Â. Plant Physiology, 2008, 148, 926-947.	2.3	137
41	Quantifying the oxygen sensitivity of seed germination using a population-based threshold model. Seed Science Research, 2007, 17, 33-43.	0.8	40
42	Compliance costs for regulatory approval of new biotech crops. Nature Biotechnology, 2007, 25, 509-511.	9.4	157
43	Primed Lettuce Seeds Exhibit Increased Sensitivity to Moisture Content During Controlled Deterioration. Hortscience: A Publication of the American Society for Hortcultural Science, 2007, 42, 1436-1439.	0.5	18
44	The Economics of Horticultural Biotechnology. Journal of Crop Improvement, 2006, 18, 413-431.	0.9	11
45	Threshold models applied to seed germination ecology. New Phytologist, 2005, 165, 338-341.	3.5	52
46	Reply to Regulatory regimes for transgenic crops. Nature Biotechnology, 2005, 23, 787-789.	9.4	15
47	Regulating transgenic crops sensibly: lessons from plant breeding, biotechnology and genomics. Nature Biotechnology, 2005, 23, 439-444.	9.4	235
48	Quantitative trait loci associated with seed and seedling traits in Lactuca. Theoretical and Applied Genetics, 2005, 111, 1365-1376.	1.8	81
49	The self-incompatibility locus (S) and quantitative trait loci for self-pollination and seed dormancy in sunflower. Theoretical and Applied Genetics, 2005, 111, 619-629.	1.8	95
50	Pollenâ€Mediated Gene Flow in California Cotton Depends on Pollinator Activity. Crop Science, 2005, 45, 1565-1570.	0.8	79
51	The case for strategic international alliances to harness nutritional genomics for public and personal health. British Journal of Nutrition, 2005, 94, 623-632.	1.2	137
52	Hydrothermal time analysis of seed dormancy in true (botanical) potato seeds. Seed Science Research, 2005, 15, 77-88.	0.8	57
53	Differential response of PCNA and Cdk-A proteins and associated kinase activities to benzyladenine and abscisic acid during maize seed germination. Journal of Experimental Botany, 2005, 56, 515-523.	2.4	39
54	Nomenclature for members of the expansin superfamily of genes and proteins. Plant Molecular Biology, 2004, 55, 311-314.	2.0	242

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55	The publicâ€“private structure of intellectual property ownership in agricultural biotechnology. Nature Biotechnology, 2003, 21, 989-995.	9.4	128
56	Expression of a GALACTINOL SYNTHASE Gene in Tomato Seeds Is Up-Regulated before Maturation Desiccation and Again after Imbibition whenever Radicle Protrusion Is Prevented. Plant Physiology, 2003, 131, 1347-1359.	2.3	144
57	Abscisic Acid and Gibberellin Differentially Regulate Expression of Genes of the SNF1-Related Kinase Complex in Tomato Seeds. Plant Physiology, 2003, 132, 1560-1576.	2.3	77
58	Class I Chitinase and Î²-1,3-Glucanase Are Differentially Regulated by Wounding, Methyl Jasmonate, Ethylene, and Gibberellin in Tomato Seeds and Leaves. Plant Physiology, 2003, 133, 263-273.	2.3	122
59	A gibberellinâ€regulated xyloglucan endotransglycosylase gene is expressed in the endosperm cap during tomato seed germination. Journal of Experimental Botany, 2002, 53, 215-223.	2.4	123
60	Applications of hydrothermal time to quantifying and modeling seed germination and dormancy. Weed Science, 2002, 50, 248-260.	0.8	421
61	Early germination events â€“ a personal perspective. New Phytologist, 2001, 149, 163-164.	3.5	0
62	Class I Î²-1,3-Glucanase and Chitinase Are Expressed in the Micropylar Endosperm of Tomato Seeds Prior to Radicle Emergence. Plant Physiology, 2001, 126, 1299-1313.	2.3	123
63	A Germination-Specific Endo-Î²-Mannanase Gene Is Expressed in the Micropylar Endosperm Cap of Tomato Seeds. Plant Physiology, 2000, 123, 1235-1246.	2.3	181
64	Expression of an Expansin Is Associated with Endosperm Weakening during Tomato Seed Germination. Plant Physiology, 2000, 124, 1265-1274.	2.3	211
65	Vacuolar H+-ATPase Is Expressed in Response to Gibberellin during Tomato Seed Germination. Plant Physiology, 1999, 121, 1339-1347.	2.3	39
66	Expression of a Polygalacturonase Associated with Tomato Seed Germination. Plant Physiology, 1999, 121, 419-428.	2.3	89
67	A Gel Diffusion Assay for Quantification of Pectin Methylesterase Activity. Analytical Biochemistry, 1998, 264, 149-157.	1.1	101
68	Callose Deposition Is Responsible for Apoplastic Semipermeability of the Endosperm Envelope of Muskmelon Seeds1. Plant Physiology, 1998, 118, 83-90.	2.3	70
69	Using Hydrotime and ABA-time Models to Quantify Seed Quality of Brassicas during Development. Journal of the American Society for Horticultural Science, 1998, 123, 692-699.	0.5	24
70	Hydrothermal time analysis of tomato seed germination at suboptimal temperature and reduced water potential. Seed Science Research, 1994, 4, 71-80.	0.8	117
71	Relationship between accumulated hydrothermal time during seed priming and subsequent seed germination rates. Seed Science Research, 1994, 4, 63-69.	0.8	36
72	Water relations of lettuce seed thermoinhibition. II. Ethylene and endosperm effects on base water potential. Seed Science Research, 1994, 4, .	0.8	29

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73	A Population-based Threshold Model Describing the Relationship Between Germination Rates and Seed Deterioration. Journal of Experimental Botany, 1993, 44, 1225-1234.	2.4	42
74	Expression of â€œDehydrin-Likeâ€•Proteins in Embryos and Seedlings of <i>Zizania palustris</i> and <i>Oryza sativa</i> during Dehydration. Plant Physiology, 1992, 99, 488-494.	2.3	82
75	Quantitative Models Characterizing Seed Germination Responses to Abscisic Acid and Osmoticum. Plant Physiology, 1992, 98, 1057-1068.	2.3	111
76	Imbibitional Damage and Desiccation Tolerance of Wild Rice (Zizania palustris) Seeds. Journal of Experimental Botany, 1992, 43, 747-757.	2.4	55
77	Prehydration and Priming Treatments that Advance Germination also Increase the Rate of Deterioration of Lettuce Seeds. Journal of Experimental Botany, 1992, 43, 307-317.	2.4	134
78	Seed Priming Influence on Germination and Emergence of Pepper Seed Lots. Crop Science, 1990, 30, 718-721.	0.8	86
79	Water Relations of Seed Development and Germination in Muskmelon (<i>Cucumis melo</i> L.). Plant Physiology, 1990, 92, 1029-1037.	2.3	131
80	A Water Relations Analysis of Seed Germination Rates. Plant Physiology, 1990, 94, 840-849.	2.3	367
81	Effects of Priming and Endosperm Integrity on Seed Germination Rates of Tomato Genotypes. Journal of Experimental Botany, 1990, 41, 1431-1439.	2.4	84
82	Effects of Priming and Endosperm Integrity on Seed Germination Rates of Tomato Genotypes. Journal of Experimental Botany, 1990, 41, 1441-1453.	2.4	130
83	Water Relations of Seed Development and Germination in Muskmelon (Cucumis meloL.). Journal of Experimental Botany, 1989, 40, 1355-1362.	2.4	44
84	The Effects of Priming and Ageing on Seed Vigour in Tomato. Journal of Experimental Botany, 1989, 40, 599-607.	2.4	88
85	The Effects of Priming and Ageing on Resistance to Deterioration of Tomato Seeds. Journal of Experimental Botany, 1989, 40, 593-598.	2.4	66
86	Water Relations of Seed Development and Germination in Muskmelon (<i>Cucumis melo</i> L.). Plant Physiology, 1988, 86, 406-411.	2.3	58
87	Seed and Soil Treatments to Improve Emergence of Muskmelon from Cold or Crusted Soils. Crop Science, 1988, 28, 1001-1005.	0.8	24
88	Insensitivity of the <i>Diageotropica</i> Tomato Mutant to Auxin. Plant Physiology, 1986, 82, 713-717.	2.3	132
89	Water Relations and Growth of the flacca Tomato Mutant in Relation to Abscisic Acid. Plant Physiology, 1983, 72, 251-255.	2.3	58
90	Effects of Soil Flooding on Leaf Gas Exchange of Tomato Plants. Plant Physiology, 1983, 73, 475-479.	2.3	113

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91	Gas Exchange, Stomatal Behavior, and Î´¹³C Values of the <i>flacca</i> Tomato Mutant in Relation to Abscisic Acid. Plant Physiology, 1983, 72, 245-250.	2.3	93
92	Involvement of Plant Growth Substances in the Alteration of Leaf Gas Exchange of Flooded Tomato Plants. Plant Physiology, 1983, 73, 480-483.	2.3	83
93	Stomatal Behavior and Water Relations of Waterlogged Tomato Plants. Plant Physiology, 1982, 70, 1508-1513.	2.3	218
94	Inhibition of Ethylene Synthesis in Tomato Plants Subjected to Anaerobic Root Stress. Plant Physiology, 1982, 70, 1503-1507.	2.3	82
95	Stress-induced Ethylene Production in the Ethylene-requiring Tomato Mutant Diageotropica. Plant Physiology, 1980, 65, 327-330.	2.3	69
96	Xylem Transport of 1-Aminocyclopropane-1-carboxylic Acid, an Ethylene Precursor, in Waterlogged Tomato Plants. Plant Physiology, 1980, 65, 322-326.	2.3	366
97	Effects of Root Anaerobiosis on Ethylene Production, Epinasty, and Growth of Tomato Plants. Plant Physiology, 1978, 61, 506-509.	2.3	85
98	Modeling of Seed Dormancy. , 0, , 72-112.		53
99	Genetic Aspects of Seed Dormancy. , 0, , 113-132.		20
100	A Merging of Paths: Abscisic Acid and Hormonal Cross-Talk in the Control of Seed Dormancy Maintenance and Alleviation. , 0, , 176-223.		30
101	Mechanisms and Genes Involved in GerminationSensu Stricto. , 0, , 264-304.		46
102	Sugar and Abscisic Acid Regulation of Germination and Transition to Seedling Growth. , 0, , 305-327.		7
103	Definitions and Hypotheses of Seed Dormancy. , 0, , 50-71.		53
104	Hydrothermal time analysis of tomato seed germination responses to priming treatments. , 0, .		17