

Karen L Koster

List of Publications by Year in descending order

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29
papers

1,950
citations

430874

18
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1734
citing authors

#	ARTICLE	IF	CITATIONS
1	Sugars and Desiccation Tolerance in Seeds. <i>Plant Physiology</i> , 1988, 88, 829-832.	4.8	412
2	Glass Formation and Desiccation Tolerance in Seeds. <i>Plant Physiology</i> , 1991, 96, 302-304.	4.8	241
3	Effects of Vitrified and Nonvitrified Sugars on Phosphatidylcholine Fluid-to-Gel Phase Transitions. <i>Biophysical Journal</i> , 2000, 78, 1932-1946.	0.5	183
4	Interactions between soluble sugars and POPC (1-palmitoyl-2-oleoylphosphatidylcholine) during dehydration: vitrification of sugars alters the phase behavior of the phospholipid. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1193, 143-150.	2.6	177
5	Juglone Disrupts Root Plasma Membrane H ⁺ -ATPase Activity and Impairs Water Uptake, Root Respiration, and Growth in Soybean (<i>Glycine max</i>) and Corn (<i>Zea mays</i>). <i>Journal of Chemical Ecology</i> , 2004, 30, 453-471.	1.8	117
6	Membrane behaviour in seeds and other systems at low water content: the various effects of solutes. <i>Seed Science Research</i> , 2001, 11, 17-25.	1.7	108
7	Redirection of metabolic flux for high levels of omega-7 monounsaturated fatty acid accumulation in camelina seeds. <i>Plant Biotechnology Journal</i> , 2015, 13, 38-50.	8.3	89
8	Desiccation sensitivity and tolerance in the moss <i>Physcomitrella patens</i> : assessing limits and damage. <i>Plant Growth Regulation</i> , 2010, 62, 293-302.	3.4	88
9	The Allelochemical Sorgoleone Inhibits Root H ⁺ -ATPase and Water Uptake. <i>Journal of Chemical Ecology</i> , 2004, 30, 2181-2191.	1.8	78
10	Exclusion of maltodextrins from phosphatidylcholine multilayers during dehydration: effects on membrane phase behaviour. <i>European Biophysics Journal</i> , 2003, 32, 96-105.	2.2	50
11	Desiccation tolerance in <i>Physcomitrella patens</i> : Rate of dehydration and the involvement of endogenous abscisic acid (ABA). <i>Plant, Cell and Environment</i> , 2018, 41, 275-284.	5.7	48
12	Dehydration Tolerance in Plants. <i>Methods in Molecular Biology</i> , 2010, 639, 3-24.	0.9	44
13	Effects of Sugars on Lipid Bilayers during Dehydration – SAXS/WAXS Measurements and Quantitative Model. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2486-2491.	2.6	39
14	Progressive loss of desiccation tolerance in germinating pea (<i>Pisum sativum</i>) seeds. <i>Physiologia Plantarum</i> , 1999, 105, 265-271.	5.2	36
15	How much solute is needed to inhibit the fluid to gel membrane phase transition at low hydration?. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1019-1022.	2.6	32
16	Phospholipid Membrane Protection by Sugar Molecules during Dehydration – Insights into Molecular Mechanisms Using Scattering Techniques. <i>International Journal of Molecular Sciences</i> , 2013, 14, 8148-8163.	4.1	29
17	Location of sugars in multilamellar membranes at low hydration. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 862-864.	2.7	26
18	Desiccation tolerance of protoplasts isolated from pea embryos. <i>Journal of Experimental Botany</i> , 2001, 52, 2105-2114.	4.8	20

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19	Changing desiccation tolerance of pea embryo protoplasts during germination. <i>Journal of Experimental Botany</i> , 2003, 54, 1607-1614.	4.8	17
20	Sugar effects on membrane damage during desiccation of pea embryo protoplasts. <i>Journal of Experimental Botany</i> , 2006, 57, 2303-2311.	4.8	16
21	Time course for cryoprotectant synthesis in the freeze-tolerant chorus frog, <i>Pseudacris triseriata</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000, 125, 367-375.	1.8	15
22	Comparing biology majors from large lecture classes with TA-facilitated laboratories to those from small lecture classes with faculty-facilitated laboratories. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2005, 29, 112-117.	1.6	15
23	Dehydration of solute-lipid systems: hydration forces analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 35, 73-79.	5.0	14
24	Kinetics of the lamellar gel-fluid transition in phosphatidylcholine membranes in the presence of sugars. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 236-242.	3.2	13
25	The effect of storage temperature on interactions between dehydrated sugars and phosphatidylcholine. <i>Journal of Thermal Analysis</i> , 1996, 47, 1581-1596.	0.6	12
26	Acclimation and endogenous abscisic acid in the moss <i>Physcomitrella patens</i> during acquisition of desiccation tolerance. <i>Physiologia Plantarum</i> , 2019, 167, 317-329.	5.2	6
27	Changes in lipoxygenase isoforms during germination and early seedling growth of <i>Pisum sativum</i> L.. <i>Seed Science Research</i> , 2006, 16, 97-106.	1.7	4
28	The development and implementation of a new medical biology major including physiology. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2015, 39, 67-75.	1.6	4
29	A comparison of anhydrous fixation methods for the observation of pea embryonic axes (<i>Pisum</i>)	1.7	3