# Karen L Koster

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Acclimation and endogenous abscisic acid in the moss Physcomitrella patens during acquisition of desiccation tolerance. Physiologia Plantarum, 2019, 167, 317-329. | 5.2 | 6 |
| 2 | Desiccation tolerance in <scp>Physcomitrella patens</scp>: Rate of dehydration and the involvement of endogenous abscisic acid (ABA). Plant, Cell and Environment, 2018, 41, 275-284. | 5.7 | 48 |
| 3 | The development and implementation of a new medical biology major including physiology. American Journal of Physiology - Advances in Physiology Education, 2015, 39, 67-75. | 1.6 | 4 |
| 4 | Redirection of metabolic flux for high levels of omegaâ€7 monounsaturated fatty acid accumulation in camelina seeds. Plant Biotechnology Journal, 2015, 13, 38-50. | 8.3 | 89 |
| 5 | Phospholipid Membrane Protection by Sugar Molecules during Dehydrationâ€"Insights into Molecular Mechanisms Using Scattering Techniques. International Journal of Molecular Sciences, 2013, 14, 8148-8163. | 4.1 | 29 |
| 6 | Kinetics of the lamellar gelâ€"fluid transition in phosphatidylcholine membranes in the presence of sugars. Chemistry and Physics of Lipids, 2010, 163, 236-242. | 3.2 | 13 |
| 7 | Desiccation sensitivity and tolerance in the moss Physcomitrella patens: assessing limits and damage. Plant Growth Regulation, 2010, 62, 293-302. | 3.4 | 88 |
| 8 | Dehydration Tolerance in Plants. Methods in Molecular Biology, 2010, 639, 3-24. | 0.9 | 44 |
| 9 | Effects of Sugars on Lipid Bilayers during Dehydration â˜ SAXS/WAXS Measurements and Quantitative Model. Journal of Physical Chemistry B, 2009, 113, 2486-2491. | 2.6 | 39 |
| 10 | How much solute is needed to inhibit the fluid to gel membrane phase transition at low hydration?. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1019-1022. | 2.6 | 32 |
| 11 | Location of sugars in multilamellar membranes at low hydration. Physica B: Condensed Matter, 2006, 385-386, 862-864. | 2.7 | 26 |
| 12 | Sugar effects on membrane damage during desiccation of pea embryo protoplasts. Journal of Experimental Botany, 2006, 57, 2303-2311. | 4.8 | 16 |
| 13 | Changes in lipoxygenase isoforms during germination and early seedling growth of Pisum sativum L.. Seed Science Research, 2006, 16, 97-106. | 1.7 | 4 |
| 14 | Comparing biology majors from large lecture classes with TA-facilitated laboratories to those from small lecture classes with faculty-facilitated laboratories. American Journal of Physiology - Advances in Physiology Education, 2005, 29, 112-117. | 1.6 | 15 |
| 15 | Juglone Disrupts Root Plasma Membrane H+-ATPase Activity and Impairs Water Uptake, Root Respiration, and Growth in Soybean (Glycine max) and Corn (Zea mays). Journal of Chemical Ecology, 2004, 30, 453-471. | 1.8 | 117 |
| 16 | The Allelochemical Sorgoleone Inhibits Root H+-ATPase and Water Uptake. Journal of Chemical Ecology, 2004, 30, 2181-2191. | 1.8 | 78 |
| 17 | Dehydration of soluteâ€"lipid systems: hydration forces analysis. Colloids and Surfaces B: Biointerfaces, 2004, 35, 73-79. | 5.0 | 14 |
| 18 | Exclusion of maltodextrins from phosphatidylcholine multilayers during dehydration: effects on membrane phase behaviour. European Biophysics Journal, 2003, 32, 96-105. | 2.2 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Changing desiccation tolerance of pea embryo protoplasts during germination. Journal of Experimental Botany, 2003, 54, 1607-1614. | 4.8 | 17 |
| 20 | A comparison of anhydrous fixation methods for the observation of pea embryonic axes (Pisum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 | 1.7 | 3 |
| 21 | Membrane behaviour in seeds and other systems at low water content: the various effects of solutes. Seed Science Research, 2001, 11, 17-25. | 1.7 | 108 |
| 22 | Desiccation tolerance of protoplasts isolated from pea embryos. Journal of Experimental Botany, 2001, 52, 2105-2114. | 4.8 | 20 |
| 23 | Time course for cryoprotectant synthesis in the freeze-tolerant chorus frog, Pseudacris triseriata. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 125, 367-375. | 1.8 | 15 |
| 24 | Effects of Vitrified and Nonvitrified Sugars on Phosphatidylcholine Fluid-to-Gel Phase Transitions. Biophysical Journal, 2000, 78, 1932-1946. | 0.5 | 183 |
| 25 | Progressive loss of desiccation tolerance in germinating pea (Pisum sativum) seeds. Physiologia Plantarum, 1999, 105, 265-271. | 5.2 | 36 |
| 26 | The effect of storage temperature on interactions between dehydrated sugars and phosphatidylcholine. Journal of Thermal Analysis, 1996, 47, 1581-1596. | 0.6 | 12 |
| 27 | Interactions between soluble sugars and POPC (1-palmitoyl-2-oleoylphosphatidylcholine) during dehydration: vitrification of sugars alters the phase behavior of the phospholipid. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1193, 143-150. | 2.6 | 177 |
| 28 | Glass Formation and Desiccation Tolerance in Seeds. Plant Physiology, 1991, 96, 302-304. | 4.8 | 241 |
| 29 | Sugars and Desiccation Tolerance in Seeds. Plant Physiology, 1988, 88, 829-832. | 4.8 | 412 |