

# Steffen P Graether

## List of Publications by Year in descending order

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64  
papers

2,116  
citations

257357

24  
h-index

243529

44  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods for recombinant production and purification of intrinsically disordered proteins. , 2022, , 41-48.		0
2	The Disordered Dehydrin and Its Role in Plant Protection: A Biochemical Perspective. <i>Biomolecules</i> , 2022, 12, 294.	1.8	24
3	The Halophyte Dehydrin Sequence Landscape. <i>Biomolecules</i> , 2022, 12, 330.	1.8	5
4	Changing Bimodal Grade Distributions – A Missed Opportunity?. <i>International Journal of Higher Education</i> , 2022, 11, 70.	0.2	0
5	Physiological, Structural, and Functional Insights Into the Cryoprotection of Membranes by the Dehydrins. <i>Frontiers in Plant Science</i> , 2022, 13, 886525.	1.7	5
6	LEAFing through literature: late embryogenesis abundant proteins coming of age – achievements and perspectives. <i>Journal of Experimental Botany</i> , 2022, 73, 6525-6546.	2.4	24
7	The Sequence, Structure and Function of the Plant Stress Protein LEA3. <i>Biophysical Journal</i> , 2021, 120, 32a.	0.2	0
8	The in vitro structure and functions of the disordered late embryogenesis abundant three proteins. <i>Protein Science</i> , 2021, 30, 678-692.	3.1	5
9	Phosphorylation-dependent control of Activity-regulated cytoskeleton-associated protein (Arc) protein by TNIK. <i>Journal of Neurochemistry</i> , 2021, 158, 1058-1073.	2.1	7
10	Conserved sequence motifs in the abiotic stress response protein late embryogenesis abundant 3. <i>PLoS ONE</i> , 2020, 15, e0237177.	1.1	12
11	Effect of in vitro cold acclimation of <i>Deschampsia antarctica</i> on the accumulation of proteins with antifreeze activity. <i>Journal of Experimental Botany</i> , 2020, 71, 2933-2942.	2.4	5
12	Expression and Purification of an Intrinsically Disordered Protein. <i>Methods in Molecular Biology</i> , 2020, 2141, 181-194.	0.4	4
13	Conserved sequence motifs in the abiotic stress response protein late embryogenesis abundant 3. , 2020, 15, e0237177.		0
14	Conserved sequence motifs in the abiotic stress response protein late embryogenesis abundant 3. , 2020, 15, e0237177.		0
15	Conserved sequence motifs in the abiotic stress response protein late embryogenesis abundant 3. , 2020, 15, e0237177.		0
16	Conserved sequence motifs in the abiotic stress response protein late embryogenesis abundant 3. , 2020, 15, e0237177.		0
17	Editorial: Bioprospecting and Biotechnology of Extremophiles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 204.	2.0	27
18	The Importance of Sequence Order Versus Composition in the Cryoprotective Function of an Intrinsically Disordered Protein. <i>Biophysical Journal</i> , 2019, 116, 201a.	0.2	0

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19	Binding of a <i>Vitis riparia</i> dehydrin to DNA. <i>Plant Science</i> , 2019, 287, 110172.	1.7	25
20	Sequence composition versus sequence order in the cryoprotective function of an intrinsically disordered stress response protein. <i>Protein Science</i> , 2019, 28, 1448-1459.	3.1	10
21	Troubleshooting Guide to Expressing Intrinsically Disordered Proteins for Use in NMR Experiments. <i>Frontiers in Molecular Biosciences</i> , 2019, 5, 118.	1.6	14
22	Testing the rogue taxa hypothesis for clustering instability. <i>Journal of Theoretical Biology</i> , 2019, 472, 36-45.	0.8	1
23	Evolution of the modular, disordered stress proteins known as dehydrins. <i>PLoS ONE</i> , 2019, 14, e0211813.	1.1	28
24	Perception of Biology Instructors on Using Student Evaluations to Inform Their Teaching. <i>International Journal of Higher Education</i> , 2019, 8, 133.	0.2	5
25	Draft genome sequences of bacteria isolated from the <i>Deschampsia antarctica</i> phyllosphere. <i>Extremophiles</i> , 2018, 22, 537-552.	0.9	19
26	Cold tolerance mechanisms of two arthropods from the Andean Range of Central Chile: <i>Agathemera crassa</i> (Insecta: Agathemeridae) and <i>Euathlus condorito</i> (Arachnida: Theraphosidae). <i>Journal of Thermal Biology</i> , 2018, 74, 133-139.	1.1	16
27	Effect of an Intrinsically Disordered Plant Stress Protein on the Properties of Water. <i>Biophysical Journal</i> , 2018, 115, 1696-1706.	0.2	23
28	Data driven point packing for fast clustering. , 2018, , .		3
29	CRISPR-induced null alleles show that <i>Frost</i> protects <i>Drosophila melanogaster</i> reproduction after cold exposure. <i>Journal of Experimental Biology</i> , 2017, 220, 3344-3354.	0.8	9
30	In vivo evidence for homo- and heterodimeric interactions of <i>Arabidopsis thaliana</i> dehydrins AtCOR47, AtERD10, and AtRAB18. <i>Scientific Reports</i> , 2017, 7, 17036.	1.6	39
31	An Analysis of the Perceptions and Resources of Large University Classes. <i>CBE Life Sciences Education</i> , 2017, 16, ar33.	1.1	22
32	Bacterial community structures and ice recrystallization inhibition activity of bacteria isolated from the phyllosphere of the Antarctic vascular plant <i>Deschampsia antarctica</i> . <i>Polar Biology</i> , 2017, 40, 1319-1331.	0.5	27
33	Genome Analysis of Conserved Dehydrin Motifs in Vascular Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 709.	1.7	48
34	Conway crossover to create hyperdimensional point packings, with applications. , 2016, , .		11
35	Properties and biotechnological applications of ice-binding proteins in bacteria. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw099.	0.7	38
36	Structure of an Intrinsically Disordered Stress Protein Alone and Bound to a Membrane Surface. <i>Biophysical Journal</i> , 2016, 111, 480-491.	0.2	22

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37	Nuclear localization of the dehydrin OpsDHN1 is determined by histidine-rich motif. <i>Frontiers in Plant Science</i> , 2015, 6, 702.	1.7	26
38	Structural and Functional Insights into the Cryoprotection of Membranes by the Intrinsically Disordered Dehydrins. <i>Journal of Biological Chemistry</i> , 2015, 290, 26900-26913.	1.6	45
39	A dehydrin-dehydrin interaction: the case of SK3 from <i>Opuntia streptacantha</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 520.	1.7	51
40	Disorder and function: a review of the dehydrin protein family. <i>Frontiers in Plant Science</i> , 2014, 5, 576.	1.7	246
41	The Importance of Size and Disorder in the Cryoprotective Effects of Dehydrins $\hat{\wedge}$ . <i>Plant Physiology</i> , 2013, 163, 1376-1386.	2.3	97
42	Cryoprotective mechanism of a small intrinsically disordered dehydrin protein. <i>Protein Science</i> , 2011, 20, 42-50.	3.1	94
43	Increased flexibility decreases antifreeze protein activity. <i>Protein Science</i> , 2010, 19, 2356-2365.	3.1	10
44	Structures and ice-binding faces of the alanine-rich type I antifreeze proteins This paper is one of a selection of papers published in this special issue entitled "Canadian Society of Biochemistry, Molecular & Cellular Biology 52nd Annual Meeting" Protein Folding: Principles and Diseases and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2010, 88, 223-229.	0.9	27
45	Structural Characterization of Amyloidotic Antifreeze Protein Fibrils and Intermediates. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009, 72, 1030-1033.	1.1	4
46	NMR assignments of the intrinsically disordered K2 and YSK2 dehydrins. <i>Biomolecular NMR Assignments</i> , 2009, 3, 273-275.	0.4	23
47	Differential stability of the bovine prion protein upon urea unfolding. <i>Protein Science</i> , 2009, 18, 2172-2182.	3.1	30
48	Obtaining highly purified intrinsically disordered protein by boiling lysis and single step ion exchange. <i>Analytical Biochemistry</i> , 2009, 392, 70-76.	1.1	56
49	Monitoring Prion Protein Stability by NMR. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009, 72, 1069-1074.	1.1	4
50	Effect of a mutation on the structure and dynamics of an $\hat{\wedge}$ -helical antifreeze protein in water and ice. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 603-610.	1.5	7
51	A $^1\text{H}/^{19}\text{F}$ minicoil NMR probe for solid-state NMR: Application to 5-fluoroindoles. <i>Journal of Magnetic Resonance</i> , 2006, 178, 65-71.	1.2	11
52	Cold survival in freeze-intolerant insects. <i>FEBS Journal</i> , 2004, 271, 3285-3296.	0.2	117
53	Hydrogen Bonding on the Ice-Binding Face of a $\hat{\wedge}$ -Helical Antifreeze Protein Indicated by Amide Proton NMR Chemical Shifts. <i>Biochemistry</i> , 2004, 43, 13012-13017.	1.2	14
54	Spruce Budworm Antifreeze Protein: Changes in Structure and Dynamics at Low Temperature. <i>Journal of Molecular Biology</i> , 2003, 327, 1155-1168.	2.0	32

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55	Freezing of a Fish Antifreeze Protein Results in Amyloid Fibril Formation. <i>Biophysical Journal</i> , 2003, 84, 552-557.	0.2	35
56	Structure of Type I Antifreeze Protein and Mutants in Supercooled Water. <i>Biophysical Journal</i> , 2001, 81, 1677-1683.	0.2	36
57	Modeling <i>Pseudomonas syringae</i> Ice-Nucleation Protein as $\alpha^2$ -Helical Protein. <i>Biophysical Journal</i> , 2001, 80, 1169-1173.	0.2	87
58	Surviving winter with antifreeze proteins. , 2001, , 199-211.		6
59	Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. <i>FEBS Journal</i> , 2000, 267, 6082-6088.	0.2	58
60	$\beta^2$ -Helix structure and ice-binding properties of a hyperactive antifreeze protein from an insect. <i>Nature</i> , 2000, 406, 325-328.	13.7	410
61	Quantitative and Qualitative Analysis of Type III Antifreeze Protein Structure and Function. <i>Journal of Biological Chemistry</i> , 1999, 274, 11842-11847.	1.6	72
62	Crystallization and Preliminary X-Ray Crystallographic Analysis of Spruce Budworm Antifreeze Protein. <i>Journal of Structural Biology</i> , 1999, 126, 72-75.	1.3	5
63	Tryptophan Residues in Caldesmon Are Major Determinants for Calmodulin Binding. <i>Biochemistry</i> , 1997, 36, 364-369.	1.2	28
64	Early detection of inflammation-associated amyloid in murine spleen using thioflavin T fluorescence of spleen homogenates: Implications for amyloidogenesis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1996, 3, 20-27.	1.4	5