Carole Dabney-Smith

List of Publications by Year
in descending order

39 papers	1,292 citations	471509 17 h-index	477307 29 g-index
43 all docs	43 docs citations	43 times ranked	1373 citing authors

#	Article	IF	Citations
1	Characterization of three members of the Arabidopsis carotenoid cleavage dioxygenase family demonstrates the divergent roles of this multifunctional enzyme family. Plant Journal, 2006, 45, 982-993.	5.7	330
2	Oligomers of Tha4 Organize at the Thylakoid Tat Translocase during Protein Transport. Journal of Biological Chemistry, 2006, 281, 5476-5483.	3.4	125
3	Plastid protein import and sorting: different paths to the same compartments. Current Opinion in Plant Biology, 2008, 11, 585-592.	7.1	84
4	Tuning the size of styrene-maleic acid copolymer-lipid nanoparticles (SMALPs) using RAFT polymerization for biophysical studies. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2931-2939.	2.6	73
5	Structural and Guanosine Triphosphate/Diphosphate Requirements for Transit Peptide Recognition by the Cytosolic Domain of the Chloroplast Outer Envelope Receptor, Toc34â€. Biochemistry, 2002, 41, 1934-1946.	2.5	72
6	Characterizing the structure of lipodisq nanoparticles for membrane protein spectroscopic studies. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 329-333.	2.6	66
7	Arabidopsis ETHE1 Encodes a Sulfur Dioxygenase That Is Essential for Embryo and Endosperm Development. Plant Physiology, 2012, 160, 226-236.	4.8	62
8	Clustering of C-Terminal Stromal Domains of Tha4 Homo-oligomers during Translocation by the Tat Protein Transport System. Molecular Biology of the Cell, 2009, 20, 2060-2069.	2.1	58
9	The C Terminus of a Chloroplast Precursor Modulates Its Interaction with the Translocation Apparatus and PIRAC. Journal of Biological Chemistry, 1999, 274, 32351-32359.	3.4	48
10	Requirement of a Tha4-conserved Transmembrane Glutamate in Thylakoid Tat Translocase Assembly Revealed by Biochemical Complementation. Journal of Biological Chemistry, 2003, 278, 43027-43033.	3.4	47
11	Functional assembly of thylakoid Î”pH-dependent/Tat protein transport pathway componentsin vitro. FEBS Journal, 2003, 270, 4930-4941.	0.2	40
12	The Chloroplast Twin Arginine Transport (Tat) Component, Tha4, Undergoes Conformational Changes Leading to Tat Protein Transport. Journal of Biological Chemistry, 2012, 287, 34752-34763.	3.4	37
13	Simple Derivatization of RAFT-Synthesized Styreneâ€“Maleic Anhydride Copolymers for Lipid Disk Formulations. Biomacromolecules, 2020, 21, 1274-1284.	5.4	31
14	Root Hair Single Cell Type Specific Profiles of Gene Expression and Alternative Polyadenylation Under Cadmium Stress. Frontiers in Plant Science, 2019, 10, 589.	3.6	24
15	Routing of thylakoid lumen proteins by the chloroplast twin arginine transport pathway. Photosynthesis Research, 2018, 138, 289-301.	2.9	22
16	Direct Interaction between a Precursor Mature Domain and Transport Component Tha4 during Twin Arginine Transport of Chloroplasts Â Â. Plant Physiology, 2013, 161, 990-1001.	4.8	21
17	Characterizing the structure of styrene-maleic acid copolymer-lipid nanoparticles (SMALPs) using RAFT polymerization for membrane protein spectroscopic studies. Chemistry and Physics of Lipids, 2019, 218, 65-72.	3.2	20
18	Structural characterization of styrene-maleic acid copolymer-lipid nanoparticles (SMALPs) using EPR spectroscopy. Chemistry and Physics of Lipids, 2019, 220, 6-13.	3.2	19

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19	Determining Î±-Helical and Î²-Sheet Secondary Structures via Pulsed Electron Spin Resonance Spectroscopy. Biochemistry, 2012, 51, 7417-7419.	2.5	17
20	Characterization of the structure of lipodisq nanoparticles in the presence of KCNE1 by dynamic light scattering and transmission electron microscopy. Chemistry and Physics of Lipids, 2017, 203, 19-23.	3.2	17
21	The membrane protein KCNQ1 potassium ion channel: Functional diversity and current structural insights. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183148.	2.6	16
22	Probing the Dynamics and Structural Topology of the Reconstituted Human KCNQ1 Voltage Sensor Domain (Q1-VSD) in Lipid Bilayers Using Electron Paramagnetic Resonance Spectroscopy. Biochemistry, 2019, 58, 965-973.	2.5	15
23	Development of electron spin echo envelope modulation spectroscopy to probe the secondary structure of recombinant membrane proteins in a lipid bilayer. Protein Science, 2015, 24, 1707-1713.	7.6	13
24	Membrane Activity of the Southern Cowpea Mosaic Virus Coat Protein: The Role of Basic Amino Acids, Helix-Forming Potential, and Lipid Composition. Virology, 2001, 291, 299-310.	2.4	11
25	The Mechanism of Inactivation of a 50-pS Envelope Anion Channel during Chloroplast Protein Import. Biophysical Journal, 1999, 77, 3156-3162.	0.5	8
26	Investigating the interaction between peptides of the amphipathic helix of Hcf106 and the phospholipid bilayer by solid-state NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 413-418.	2.6	6
27	Thylakoidâ€integrated recombinant Hcf106 participates in the chloroplast twin arginine transport system. Plant Direct, 2018, 2, e00090.	1.9	5
28	Solid-state NMR investigations of peptideâ€“lipid interactions of the transmembrane domain of a plant-derived protein, Hcf106. Chemistry and Physics of Lipids, 2013, 175-176, 123-130.	3.2	2
29	Probing the interaction of the potassium channel modulating KCNE1 in lipid bilayers via solidâ€state NMR spectroscopy. Magnetic Resonance in Chemistry, 2017, 55, 754-758.	1.9	1
30	16. Styrene-maleic acid copolymers: a new tool for membrane biophysics. , 2019, , 477-496.		1
31	Protein Routing Processes in the Thylakoid. , 2014, , 271-289.		1
32	Probing the Membrane Bound KCNE1 Protein with Solid State NMR Spectroscopy. Biophysical Journal, 2013, 104, 429a.	0.5	0
33	Investigating the Interaction Between Hcf106 Peptides and the Phospholipid Bilayer by Solid-State NMR Spectroscopy. Biophysical Journal, 2013, 104, 220a.	0.5	0
34	Incorporation of a Rigid TOAC Spin-Label as a Non-Native Amino Acid into a Full-Length Protein by InÂVitro Translation using Amber Codon Suppression. Biophysical Journal, 2013, 104, 343a.	0.5	0
35	Probing the Secondary Structure of Membrane Protein using Bacterial Expression System and Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy. Biophysical Journal, 2015, 108, 247a.	0.5	0
36	Using EPR Spectroscopy to Characterize the Structure of Lipid Membrane-Polymer Nanoring Complexes. Biophysical Journal, 2016, 110, 152a.	0.5	0

#	Article	IF	Citations
37	Characterizing the Structure of Styrene-Maleic Acid Copolymer-Lipid Nanoparticles (SMALPS) using Raft Polymerization for Membrane Protein Spectroscopic Studies. Biophysical Journal, 2019, 116, 517a.	0.5	0
38	Characterizing the Structure of Styrene Maleic Acid Copolymer Lipid Nanoparticles (SMALPS) Using Raft Polymerization for Membrane Protein Spectroscopic Studies. Biophysical Journal, 2020, 118, 361a-362a.	0.5	0
39	The expression, purification, and site-directed spin-labeling of KCNE4. Biophysical Journal, 2022, 121, 241a-242a.	0.5	0