Jefferson D Knight

List of Publications by Year
in descending order

24 papers	1,429 citations	516710 16 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	1730 citing authors

#	Article	IF	Citations
1	Phospholipid Catalysis of Diabetic Amyloid Assembly. Journal of Molecular Biology, 2004, 341, 1175-1187.	4.2	328
2	Conserved and Cooperative Assembly of Membrane-Bound Î±-Helical States of Islet Amyloid Polypeptideâ€. Biochemistry, 2006, 45, 9496-9508.	2.5	295
3	Single Molecule Diffusion of Membrane-Bound Proteins: Window into Lipid Contacts and Bilayer Dynamics. Biophysical Journal, 2010, 99, 2879-2887.	0.5	161
4	Formation of a Copper Specific Binding Site in Non-Native States of Î²-2-Microglobulin. Biochemistry, 2002, 41, 10646-10656.	2.5	103
5	Single-Molecule Fluorescence Studies of a PH Domain: New Insights into the Membrane Docking Reaction. Biophysical Journal, 2009, 96, 566-582.	0.5	99
6	Interaction of membraneâ€bound islet amyloid polypeptide with soluble and crystalline insulin. Protein Science, 2008, 17, 1850-1856.	7.6	73
7	The high-affinity calcium sensor synaptotagmin-7 serves multiple roles in regulated exocytosis. Journal of General Physiology, 2018, 150, 783-807.	1.9	48
8	Single-Molecule Studies Reveal a Hidden Key Step in the Activation Mechanism of Membrane-Bound Protein Kinase C-Î±. Biochemistry, 2014, 53, 1697-1713.	2.5	40
9	Hydrophobic Contributions to the Membrane Docking of Synaptotagmin 7 C2A Domain: Mechanistic Contrast between Isoforms 1 and 7. Biochemistry, 2012, 51, 7654-7664.	2.5	32
10	Assembly of Membrane-Bound Protein Complexes: Detection and Analysis by Single Molecule Diffusion. Biochemistry, 2012, 51, 1638-1647.	2.5	32
11	Zar1 represses translation in Xenopus oocytes and binds to the TCS in maternal mRNAs with different characteristics than Zar2. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 1034-1046.	1.9	31
12	The synaptotagmin C2B domain calcium-binding loops modulate the rate of fusion pore expansion. Molecular Biology of the Cell, 2018, 29, 834-845.	2.1	30
13	Membrane-Binding Cooperativity and Coinsertion by C2AB Tandem Domains of Synaptotagmins 1 and 7. Biophysical Journal, 2019, 116, 1025-1036.	0.5	27
14	Membrane Docking of the Synaptotagmin 7 C2A Domain: Computation Reveals Interplay between Electrostatic and Hydrophobic Contributions. Biochemistry, 2015, 54, 5696-5711.	2.5	21
15	Membrane Docking of the Synaptotagmin 7 C2A Domain: Electron Paramagnetic Resonance Measurements Show Contributions from Two Membrane Binding Loops. Biochemistry, 2015, 54, 5684-5695.	2.5	20
16	Stabilization of DNA utilizing divalent cations and alcohol. International Journal of Pharmaceutics, 2003, 264, 15-24.	5.2	17
17	The C2 domains of granuphilin are high-affinity sensors for plasma membrane lipids. Chemistry and Physics of Lipids, 2014, 182, 29-37.	3.2	17
18	Lipid-Coated Gold Nanoparticles and FRET Allow Sensitive Monitoring of Liposome Clustering Mediated by the Synaptotagmin-7 C2A Domain. Langmuir, 2017, 33, 9222-9230.	3.5	15

#	Article	IF	Citations
19	Lateral Diffusion of Proteins on Supported Lipid Bilayers: Additive Friction of Synaptotagmin 7 C2Aâ€“C2B Tandem Domains. Biochemistry, 2014, 53, 7904-7913.	2.5	13
20	Multivalent lipid targeting by the calcium-independent C2A domain of synaptotagmin-like protein 4/granuphilin. Journal of Biological Chemistry, 2021, 296, 100159.	3.4	8
21	Tracking Information Literacy in Science Students: A Longitudinal Case Study of Skill Retention from General Chemistry to Biochemistry. Journal of Chemical Education, 2021, 98, 3749-3757.	2.3	8
22	A simple supported tubulated bilayer system for evaluating protein-mediated membrane remodeling. Chemistry and Physics of Lipids, 2018, 215, 18-28.	3.2	6
23	A Paired Set of Biochemistry Writing Assignments Combining Core Threshold Concepts, Information Literacy, and Real-World Applications. Journal of Chemical Education, 2021, 98, 3758-3766.	2.3	5
24	Perspectives on How 1.5 Years of the COVID-19 Pandemic Have Impacted Biophysicists at Primarily Undergraduate Institutions. The Biophysicist, 2022, , .	0.3	0