Anne Gershenson

List of Publications by Year
in descending order

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41 papers	1,380 citations	430874 18 h-index	345221 36 g-index
48 all docs	48 docs citations	48 times ranked	1988 citing authors

#	Article	IF	Citations
1	Physicochemical Properties of Cells and Their Effects on Intrinsically Disordered Proteins (IDPs). Chemical Reviews, 2014, 114, 6661-6714.	47.7	391
2	Protein folding in the cell: challenges and progress. Current Opinion in Structural Biology, 2011, 21, 32-41.	5.7	140
3	Post-reductionist protein science, or putting Humpty Dumpty back together again. Nature Chemical Biology, 2009, 5, 774-777.	8.0	107
4	Energy landscapes of functional proteins are inherently risky. Nature Chemical Biology, 2014, 10, 884-891.	8.0	90
5	Cationâ^Ï€ Interactions As Lipid-Specific Anchors for Phosphatidylinositol-Specific Phospholipase C. Journal of the American Chemical Society, 2013, 135, 5740-5750.	13.7	62
6	Successes and challenges in simulating the folding of large proteins. Journal of Biological Chemistry, 2020, 295, 15-33.	3.4	56
7	A Role for Weak Electrostatic Interactions in Peripheral Membrane Protein Binding. Biophysical Journal, 2016, 110, 1367-1378.	0.5	47
8	The Cation-Ï€ Box Is a Specific Phosphatidylcholine Membrane Targeting Motif. Journal of Biological Chemistry, 2013, 288, 14863-14873.	3.4	36
9	Serpin latency transition at atomic resolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15414-15419.	7.1	31
10	Correlation of Vesicle Binding and Phospholipid Dynamics with Phospholipase C Activity. Journal of Biological Chemistry, 2009, 284, 16099-16107.	3.4	26
11	Search and Subvert: Minimalist Bacterial Phosphatidylinositol-Specific Phospholipase C Enzymes. Chemical Reviews, 2018, 118, 8435-8473.	47.7	25
12	Quantifying Transient Interactions between Bacillus Phosphatidylinositol-Specific Phospholipase-C and Phosphatidylcholine-Rich Vesicles. Journal of the American Chemical Society, 2015, 137, 14-17.	13.7	24
13	Cellular folding pathway of a metastable serpin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6484-6489.	7.1	24
14	Interfacial Aromatics Mediating Cationâ^Ï€ Interactions with Choline-Containing Lipids Can Contribute as Much to Peripheral Protein Affinity for Membranes as Aromatics Inserted below the Phosphates. Journal of Physical Chemistry Letters, 2019, 10, 3972-3977.	4.6	24
15	Imaging Membrane Order and Dynamic Interactions in Living Cells with a DNA Zipper Probe. Angewandte Chemie - International Edition, 2022, 61, e202112033.	13.8	22
16	Fluorinated Aromatic Amino Acids Distinguish Cation-Ï€ Interactions from Membrane Insertion. Journal of Biological Chemistry, 2015, 290, 19334-19342.	3.4	21
17	Heterogeneous Diffusion of Polystyrene Nanoparticles through an Alginate Matrix: The Role of Cross-linking and Particle Size. Environmental Science & Technology, 2020, 54, 5159-5166.	10.0	21
18	Fluorescence Correlation Spectroscopy of Phosphatidylinositol-Specific Phospholipase C Monitors the Interplay of Substrate and Activator Lipid Binding. Biochemistry, 2009, 48, 6835-6845.	2.5	20

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19	All-Atom Simulations Reveal How Single-Point Mutations Promote Serpin Misfolding. Biophysical Journal, 2018, 114, 2083-2094.	0.5	19
20	Interactions of Haptoglobin with Monomeric Globin Species: Insights from Molecular Modeling and Native Electrospray Ionization Mass Spectrometry. Biochemistry, 2016, 55, 1918-1928.	2.5	18
21	Single molecule enzymology: watching the reaction. Current Opinion in Chemical Biology, 2009, 13, 436-442.	6.1	17
22	Implementing In-Cell Fast Photochemical Oxidation of Proteins in a Platform Incubator with a Movable XY Stage. Analytical Chemistry, 2020, 92, 1691-1696.	6.5	16
23	Conformational Distributions of Proteaseâ˜Serpin Complexes:Â A Partially Translocated Complexâ€. Biochemistry, 2006, 45, 10865-10872.	2.5	14
24	Deciphering Protein Stability in Cells. Journal of Molecular Biology, 2014, 426, 4-6.	4.2	14
25	Role of a Conserved Pore Residue in the Formation of a Prehydrolytic High Substrate Affinity State in the AAA+ Chaperone ClpA. Biochemistry, 2008, 47, 13497-13505.	2.5	13
26	Single-Molecule Analysis of Nucleotide-Dependent Substrate Binding by the Protein Unfoldase ClpA. Journal of the American Chemical Society, 2007, 129, 12378-12379.	13.7	12
27	Competition between Anion Binding and Dimerization Modulates Staphylococcus aureus Phosphatidylinositol-specific Phospholipase C Enzymatic Activity. Journal of Biological Chemistry, 2012, 287, 40317-40327.	3.4	12
28	Expression and Purification of Active Recombinant Human Alpha-1 Antitrypsin (AAT) from Escherichia coli. Methods in Molecular Biology, 2017, 1639, 195-209.	0.9	12
29	Delayed inhibition mechanism for secondary channel factor regulation of ribosomal RNA transcription. ELife, 2019, 8, .	6.0	12
30	Does Changing the Predicted Dynamics of a Phospholipase C Alter Activity and Membrane Binding?. Biophysical Journal, 2013, 104, 185-195.	0.5	11
31	Recombinant broad-range phospholipase C from Listeria monocytogenes exhibits optimal activity at acidic pH. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 697-705.	2.3	8
32	Proper secretion of the serpin antithrombin relies strictly on thiol-dependent quality control. Journal of Biological Chemistry, 2019, 294, 18992-19011.	3.4	8
33	Standard Binding Free Energy and Membrane Desorption Mechanism for a Phospholipase C. Journal of Chemical Information and Modeling, 2022, 62, 6602-6613.	5.4	8
34	The binding of activated Gî±q to phospholipase C-î² exhibits anomalous affinity. Journal of Biological Chemistry, 2017, 292, 16787-16801.	3.4	6
35	Phospholipids in Motion: High-Resolution ³¹P NMR Field Cycling Studies. Journal of Physical Chemistry B, 2021, 125, 8827-8838.	2.6	5
36	Collapse of a Long Axis: Single-Molecule FÃ¶rster Resonance Energy Transfer and Serpin Equilibrium Unfolding. Biochemistry, 2014, 53, 2903-2914.	2.5	4

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37	Imaging Membrane Order and Dynamic Interactions in Living Cells with a DNA Zipper Probe. Angewandte Chemie, 2022, 134, .	2.0	4
38	Platform Incubator with Movable XY Stage: A New Platform for Implementing In-Cell Fast Photochemical Oxidation of Proteins. Journal of Visualized Experiments, 2021, , .	0.3	0
39	How does Bacillus thuringiensis Plâ€Phospholipase C bind to mixed component vesicles? Insights from mass spectrometry Hâ€Ð exchange. FASEB Journal, 2009, 23, 520.12.	0.5	0
40	Engineering a specific phosphatidylcholine binding site motif into a phosphatidylinositolâ€specific phospholipase C. FASEB Journal, 2013, 27, 1021.5.	0.5	0
41	Specific Transient Interactions Between a Bacillus Virulence Factor and Phosphatidylcholine in Membranes. FASEB Journal, 2015, 29, 568.9.	0.5	0