Carlos A Castaneda

List of Publications by Year
in descending order

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44 papers	2,487 citations	279798 23 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	3250 citing authors

#	Article	IF	Citations
1	Large shifts in pK _a values of lysine residues buried inside a protein. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5260-5265.	7.1	379
2	Ubiquitin Modulates Liquid-Liquid Phase Separation of UBQLN2 via Disruption of Multivalent Interactions. Molecular Cell, 2018, 69, 965-978.e6.	9.7	257
3	Charges in the hydrophobic interior of proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16096-16100.	7.1	195
4	Molecular determinants of the pK_a values of Asp and Glu residues in staphylococcal nuclease. Proteins: Structure, Function and Bioinformatics, 2009, 77, 570-588.	2.6	150
5	High tolerance for ionizable residues in the hydrophobic interior of proteins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17784-17788.	7.1	120
6	The pKa Values of Acidic and Basic Residues Buried at the Same Internal Location in a Protein Are Governed by Different Factors. Journal of Molecular Biology, 2009, 389, 34-47.	4.2	120
7	Mapping and Initial Analysis of Human Subtelomeric Sequence Assemblies. Genome Research, 2004, 14, 18-28.	5.5	107
8	Recovering a Representative Conformational Ensemble from Underdetermined Macromolecular Structural Data. Journal of the American Chemical Society, 2013, 135, 16595-16609.	13.7	106
9	Nonenzymatic Assembly of Natural Polyubiquitin Chains of Any Linkage Composition and Isotopic Labeling Scheme. Journal of the American Chemical Society, 2011, 133, 17855-17868.	13.7	85
10	ALS-Linked Mutations Affect UBQLN2 Oligomerization and Phase Separation in a Position- and Amino Acid-Dependent Manner. Structure, 2019, 27, 937-951.e5.	3.3	75
11	DNA-Damage-Inducible 1 Protein (Ddi1) Contains an Uncharacteristic Ubiquitin-like Domain that Binds Ubiquitin. Structure, 2015, 23, 542-557.	3.3	71
12	Single Amino Acid Substitutions in Stickers, but Not Spacers, Substantially Alter UBQLN2 Phase Transitions and Dense Phase Material Properties. Journal of Physical Chemistry B, 2019, 123, 3618-3629.	2.6	60
13	Linkage-specific conformational ensembles of non-canonical polyubiquitin chains. Physical Chemistry Chemical Physics, 2016, 18, 5771-5788.	2.8	58
14	Unique Structural, Dynamical, and Functional Properties of K11-Linked Polyubiquitin Chains. Structure, 2013, 21, 1168-1181.	3.3	56
15	Linkage via K27 Bestows Ubiquitin Chains with Unique Properties among Polyubiquitins. Structure, 2016, 24, 423-436.	3.3	56
16	Direct Evidence for Deprotonation of a Lysine Side Chain Buried in the Hydrophobic Core of a Protein. Journal of the American Chemical Society, 2008, 130, 6714-6715.	13.7	52
17	Structural and thermodynamic consequences of burial of an artificial ion pair in the hydrophobic interior of a protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11685-11690.	7.1	37
18	Controlled enzymatic synthesis of natural-linkage, defined-length polyubiquitin chains using lysines with removable protecting groups. Chemical Communications, 2011, 47, 2026.	4.1	36

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19	Structural Origins of High Apparent Dielectric Constants Experienced by Ionizable Groups in the Hydrophobic Core of a Protein. Journal of Molecular Biology, 2011, 405, 361-377.	4.2	36
20	Nonenzymatic assembly of branched polyubiquitin chains for structural and biochemical studies. Bioorganic and Medicinal Chemistry, 2013, 21, 3421-3429.	3.0	35
21	Ubiquitinâ€Modulated Phase Separation of Shuttle Proteins: Does Condensate Formation Promote Protein Degradation?. BioEssays, 2020, 42, e2000036.	2.5	33
22	Structure, dynamics and functions of UBQLNs: at the crossroads of protein quality control machinery. Biochemical Journal, 2020, 477, 3471-3497.	3.7	33
23	Segmental Isotopic Labeling of Ubiquitin Chains To Unravel Monomerâ€Specific Molecular Behavior. Angewandte Chemie - International Edition, 2011, 50, 11210-11214.	13.8	30
24	Engineered Domain Swapping as an On/Off Switch for Protein Function. Chemistry and Biology, 2015, 22, 1384-1393.	6.0	28
25	Modifying the Vicinity of the Isopeptide Bond To Reveal Differential Behavior of Ubiquitin Chains with Interacting Proteins: Organic Chemistry Applied to Synthetic Proteins. Angewandte Chemie - International Edition, 2013, 52, 11149-11153.	13.8	26
26	Mechanistic insights into enhancement or inhibition of phase separation by different polyubiquitin chains. EMBO Reports, 2022, 23, .	4.5	26
27	Previously uncharacterized interactions between the folded and intrinsically disordered domains impart asymmetric effects on UBQLN2 phase separation. Protein Science, 2021, 30, 1467-1481.	7.6	24
28	Evidence for Cooperative and Domain-specific Binding of the Signal Transducing Adaptor Molecule 2 (STAM2) to Lys63-linked Diubiquitin. Journal of Biological Chemistry, 2012, 287, 18687-18699.	3.4	21
29	Alanine Scan of Core Positions in Ubiquitin Reveals Links between Dynamics, Stability, and Function. Journal of Molecular Biology, 2014, 426, 1377-1389.	4.2	21
30	Cancer Mutations in SPOP Put a Stop to Its Inter-compartmental Hops. Molecular Cell, 2018, 72, 1-3.	9.7	21
31	Base-CP proteasome can serve as a platform for stepwise lid formation. Bioscience Reports, 2015, 35, .	2.4	18
32	Unexpected Trypsin Cleavage at Ubiquitinated Lysines. Analytical Chemistry, 2015, 87, 8144-8148.	6.5	16
33	Structural Basis for the Inhibitory Effects of Ubistatins in the Ubiquitin-Proteasome Pathway. Structure, 2017, 25, 1839-1855.e11.	3.3	15
34	Phase separation in biology and diseaseâ€"a symposium report. Annals of the New York Academy of Sciences, 2019, 1452, 3-11.	3.8	14
35	ALSâ€linked mutations impair UBQLN2 stressâ€induced biomolecular condensate assembly in cells. Journal of Neurochemistry, 2021, 159, 145-155.	3.9	12
36	Condensed E. coli cultures for highly efficient production of proteins containing unnatural amino acids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5613-5616.	2.2	11

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37	Functional tuning of the catalytic residue p K _a in a de novo designed esterase. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1656-1665.	2.6	8
38	Preparing to read the ubiquitin code: a middleâ€out strategy for characterization of all lysineâ€linked diubiquitins. Journal of Mass Spectrometry, 2014, 49, 1272-1278.	1.6	7
39	Structure analysis suggests Ess1 isomerizes the carboxy-terminal domain of RNA polymerase II via a bivalent anchoring mechanism. Communications Biology, 2021, 4, 398.	4.4	7
40	Human Subtelomeric DNA. Cold Spring Harbor Symposia on Quantitative Biology, 2003, 68, 39-48.	1.1	4
41	Kemp Eliminases of the AlleyCat Family Possess High Substrate Promiscuity. ChemCatChem, 2019, 11, 1425-1430.	3.7	3
42	Hydrophobic Mutations Promote UBQLN2 Oligomerization And Phase Separation. FASEB Journal, 2019, 33, 464.2.	0.5	0
43	Polyubiquitin effects on phase transitions of shuttle protein UBQLN2. FASEB Journal, 2022, 36, .	0.5	0
44	Effects of Modulating Multivalent Ligand Binding Accessibility & Affinity on Liquidâ€Liquid Phase Separation. FASEB Journal, 2022, 36, .	0.5	0