

Ashok A Deniz

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

4,746
citations

159525

30
h-index

175177

52
g-index

58
all docs

58
docs citations

58
times ranked

5110
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleophosmin integrates within the nucleolus via multi-modal interactions with proteins displaying R-rich linear motifs and rRNA. <i>ELife</i> , 2016, 5, .	2.8	395
2	Interplay of $\hat{\alpha}$ -synuclein binding and conformational switching probed by single-molecule fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5645-5650.	3.3	379
3	Reentrant Phase Transition Drives Dynamic Substructure Formation in Ribonucleoprotein Droplets. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11354-11359.	7.2	320
4	A natively unfolded yeast prion monomer adopts an ensemble of collapsed and rapidly fluctuating structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2649-2654.	3.3	296
5	Modulation of allostery by protein intrinsic disorder. <i>Nature</i> , 2013, 498, 390-394.	13.7	295
6	Self-interaction of NPM1 modulates multiple mechanisms of liquid-liquid phase separation. <i>Nature Communications</i> , 2018, 9, 842.	5.8	285
7	Single-molecule biophysics: at the interface of biology, physics and chemistry. <i>Journal of the Royal Society Interface</i> , 2008, 5, 15-45.	1.5	263
8	RATIOMETRIC SINGLE-MOLECULE STUDIES OF FREELY DIFFUSING BIOMOLECULES. <i>Annual Review of Physical Chemistry</i> , 2001, 52, 233-253.	4.8	195
9	A General and Efficient Method for the Site-Specific Dual-Labeling of Proteins for Single Molecule Fluorescence Resonance Energy Transfer. <i>Journal of the American Chemical Society</i> , 2008, 130, 17664-17665.	6.6	159
10	Ratiometric measurement and identification of single diffusing molecules. <i>Chemical Physics</i> , 1999, 247, 85-106.	0.9	155
11	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	2.8	152
12	Visualizing a one-way protein encounter complex by ultrafast single-molecule mixing. <i>Nature Methods</i> , 2011, 8, 239-241.	9.0	128
13	Monitoring the Conformational Fluctuations of DNA Hairpins Using Single-Pair Fluorescence Resonance Energy Transfer. <i>Journal of the American Chemical Society</i> , 2001, 123, 4295-4303.	6.6	127
14	Conserved features of intermediates in amyloid assembly determine their benign or toxic states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11172-11177.	3.3	115
15	Three-Color Single-Molecule Fluorescence Resonance Energy Transfer. <i>ChemPhysChem</i> , 2005, 6, 74-77.	1.0	110
16	Single-Molecule Fluorescence Studies of Intrinsically Disordered Proteins. <i>Methods in Enzymology</i> , 2010, 472, 179-204.	0.4	104
17	$\hat{\alpha}$ -Synuclein Multistate Folding Thermodynamics: Implications for Protein Misfolding and Aggregation. <i>Biochemistry</i> , 2007, 46, 4499-4509.	1.2	90
18	Reentrant Phase Transitions and Non-Equilibrium Dynamics in Membraneless Organelles. <i>Biochemistry</i> , 2018, 57, 2470-2477.	1.2	82

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19	Direct single-molecule observation of a protein living in two opposed native structures. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10153-10158.	3.3	72
20	Shedding light on protein folding landscapes by single-molecule fluorescence. Chemical Society Reviews, 2014, 43, 1172-1188.	18.7	72
21	Multicolor single-molecule FRET to explore protein folding and binding. Molecular BioSystems, 2010, 6, 1540.	2.9	68
22	Ultrafast microfluidic mixer with three-dimensional flow focusing for studies of biochemical kinetics. Lab on A Chip, 2010, 10, 598-609.	3.1	66
23	Counteracting chemical chaperone effects on the single-molecule α -synuclein structural landscape. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17826-17831.	3.3	65
24	Microfluidic Device for Single-Molecule Experiments with Enhanced Photostability. Journal of the American Chemical Society, 2009, 131, 13610-13612.	6.6	61
25	Alteration of the α -Synuclein Folding Landscape by a Mutation Related to Parkinson's Disease. Angewandte Chemie - International Edition, 2010, 49, 3469-3472.	7.2	58
26	Reentrant Phase Transition Drives Dynamic Substructure Formation in Ribonucleoprotein Droplets. Angewandte Chemie, 2017, 129, 11512-11517.	1.6	53
27	Divalent cations can control a switch-like behavior in heterotypic and homotypic RNA coacervates. Scientific Reports, 2019, 9, 12161.	1.6	50
28	Protein folding at single-molecule resolution. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1021-1029.	1.1	46
29	Freely Diffusing Single Hairpin Ribozymes Provide Insights into the Role of Secondary Structure and Partially Folded States in RNA Folding. Biophysical Journal, 2004, 87, 457-467.	0.2	45
30	Physical Chemistry of Cellular Liquid-Phase Separation. Chemistry - A European Journal, 2019, 25, 5600-5610.	1.7	44
31	Single-molecule fluorescence studies of intrinsically disordered proteins and liquid phase separation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 980-987.	1.1	33
32	Intramolecular three-colour single pair FRET of intrinsically disordered proteins with increased dynamic range. Molecular BioSystems, 2012, 8, 2531.	2.9	32
33	Two-Dimensional Crowding Uncovers a Hidden Conformation of α -Synuclein. Angewandte Chemie - International Edition, 2016, 55, 12789-12792.	7.2	31
34	High-Resolution Temperature-Concentration Diagram of α -Synuclein Conformation Obtained from a Single Förster Resonance Energy Transfer Image in a Microfluidic Device. Analytical Chemistry, 2009, 81, 6929-6935.	3.2	30
35	Asymmetric Modulation of Protein Order-Disorder Transitions by Phosphorylation and Partner Binding. Angewandte Chemie - International Edition, 2016, 55, 1675-1679.	7.2	28
36	Fluorescence Quenching by TEMPO: A Sub-30 Å... Single-Molecule Ruler. Biophysical Journal, 2005, 89, L37-L39.	0.2	27

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37	Fluorescence from Diffusing Single Molecules Illuminates Biomolecular Structure and Dynamics. <i>Journal of Fluorescence</i> , 2007, 17, 775-783.	1.3	26
38	Site-Specific Three-Color Labeling of Î±-Synuclein via Conjugation to Uniquely Reactive Cysteines during Assembly by Native Chemical Ligation. <i>Cell Chemical Biology</i> , 2018, 25, 797-801.e4.	2.5	25
39	Forced Folding of a Disordered Protein Accesses an Alternative Folding Landscape. <i>ChemPhysChem</i> , 2015, 16, 90-94.	1.0	24
40	Ultrafast cooling reveals microsecond-scale biomolecular dynamics. <i>Nature Communications</i> , 2014, 5, 5737.	5.8	23
41	Probing protein disorder and complexity at single-molecule resolution. <i>Seminars in Cell and Developmental Biology</i> , 2015, 37, 26-34.	2.3	21
42	Dual Unnatural Amino Acid Incorporation and Clickâ€Chemistry Labeling to Enable Singleâ€Molecule FRET Studies of p97 Folding. <i>ChemBioChem</i> , 2016, 17, 981-984.	1.3	21
43	Networking and Dynamic Switches in Biological Condensates. <i>Cell</i> , 2020, 181, 228-230.	13.5	13
44	Deciphering Complexity in Molecular Biophysics with Single-Molecule Resolution. <i>Journal of Molecular Biology</i> , 2016, 428, 301-307.	2.0	11
45	Binding of NFÎ±B Appears to Twist the Ankyrin Repeat Domain of Î±BÎ±. <i>Biophysical Journal</i> , 2016, 110, 887-895.	0.2	10
46	Complex dynamics of multicomponent biological coacervates. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 56, 101488.	3.4	9
47	Ratiometric Singleâ€Molecule FRET Measurements to Probe Conformational Subpopulations of Intrinsically Disordered Proteins. <i>Current Protocols in Chemical Biology</i> , 2020, 12, e80.	1.7	8
48	Enzymes can adapt to cold by wiggling regions far from their active site. <i>Nature</i> , 2018, 558, 195-196.	13.7	6
49	Asymmetric Modulation of Protein Orderâ€Disorder Transitions by Phosphorylation and Partner Binding. <i>Angewandte Chemie</i> , 2016, 128, 1707-1711.	1.6	5
50	Denaturant-specific effects on the structural energetics of a protein-denatured ensemble. <i>European Biophysics Journal</i> , 2018, 47, 89-94.	1.2	4
51	Frontispiece: Reentrant Phase Transition Drives Dynamic Substructure Formation in Ribonucleoprotein Droplets. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	3
52	Osmolyte-, Binding-, and Temperature-Induced Transitions of Intrinsically Disordered Proteins. , 2012, 896, 257-266.		2
53	Twoâ€Dimensional Crowding Uncovers a Hidden Conformation of Î±â€Synuclein. <i>Angewandte Chemie</i> , 2016, 128, 12981-12984.	1.6	2
54	Conformational Freedom and Topological Confinement of Proteins in Biomolecular Condensates. <i>Journal of Molecular Biology</i> , 2021, 434, 167348.	2.0	2

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55	Frontispiz: Reentrant Phase Transition Drives Dynamic Substructure Formation in Ribonucleoprotein Droplets. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0
56	Frontispiece: Physical Chemistry of Cellular Liquidâ€Phase Separation. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0