Titus M Franzmann

List of Publications by Year
in descending order

37 papers	7,903 citations	218381 26 h-index	344852 36 g-index
43 all docs	43 docs citations	43 times ranked	8204 citing authors

#	Article	IF	Citations
1	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. Cell, 2015, 162, 1066-1077.	13.5	2,182
2	RNA buffers the phase separation behavior of prion-like RNA binding proteins. Science, 2018, 360, 918-921.	6.0	837
3	Some like it hot: the structure and function of small heat-shock proteins. Nature Structural and Molecular Biology, 2005, 12, 842-846.	3.6	736
4	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. Cell, 2020, 181, 346-361.e17.	13.5	557
5	Phase separation of a yeast prion protein promotes cellular fitness. Science, 2018, 359, .	6.0	534
6	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. EMBO Journal, 2017, 36, 1669-1687.	3.5	370
7	A pH-driven transition of the cytoplasm from a fluid- to a solid-like state promotes entry into dormancy. ELife, 2016, 5, .	2.8	355
8	Protein condensates as aging Maxwell fluids. Science, 2020, 370, 1317-1323.	6.0	247
9	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. Nature Communications, 2021, 12, 1085.	5.8	245
10	A Userâ€™s Guide for Phase Separation Assays with Purified Proteins. Journal of Molecular Biology, 2018, 430, 4806-4820.	2.0	195
11	Different Material States of Pub1 Condensates Define Distinct Modes of Stress Adaptation and Recovery. Cell Reports, 2018, 23, 3327-3339.	2.9	183
12	Prion-like low-complexity sequences: Key regulators of protein solubility and phase behavior. Journal of Biological Chemistry, 2019, 294, 7128-7136.	1.6	178
13	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. Cell, 2020, 181, 818-831.e19.	13.5	130
14	The eye lens chaperone Î±-crystallin forms defined globular assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13272-13277.	3.3	123
15	Protein Phase Separation as a Stress Survival Strategy. Cold Spring Harbor Perspectives in Biology, 2019, 11, a034058.	2.3	112
16	Phase-separating RNA-binding proteins form heterogeneous distributions of clusters in subsaturated solutions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	107
17	Activation of the Chaperone Hsp26 Is Controlled by the Rearrangement of Its Thermosensor Domain. Molecular Cell, 2008, 29, 207-216.	4.5	90
18	Protein refolding by pH-triggered chaperone binding and release. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1071-1076.	3.3	89

#	Article	IF	Citations
19	Multiple Distinct Assemblies Reveal Conformational Flexibility in the Small Heat Shock Protein Hsp26. Structure, 2006, 14, 1197-1204.	1.6	87
20	The Activation Mechanism of Hsp26 does not Require Dissociation of the Oligomer. Journal of Molecular Biology, 2005, 350, 1083-1093.	2.0	81
21	Identification of a Hypochlorite-specific Transcription Factor from Escherichia coli. Journal of Biological Chemistry, 2012, 287, 6892-6903.	1.6	70
22	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. EMBO Journal, 2019, 38, e101341.	3.5	58
23	Regulatory Circuits of the AAA+ Disaggregase Hsp104. Journal of Biological Chemistry, 2011, 286, 17992-18001.	1.6	44
24	Tandem Acyl Carrier Proteins in the Curacin Biosynthetic Pathway Promote Consecutive Multienzyme Reactions with a Synergistic Effect. Angewandte Chemie - International Edition, 2011, 50, 2795-2798.	7.2	38
25	Regions Outside the Î±-Crystallin Domain of the Small Heat Shock Protein Hsp26 Are Required for Its Dimerization. Journal of Molecular Biology, 2010, 398, 122-131.	2.0	32
26	The Crystal Structure of Escherichia coli Group 4 Capsule Protein GfcC Reveals a Domain Organization Resembling That of Wza. Biochemistry, 2011, 50, 5465-5476.	1.2	31
27	Characterization of a highly flexible selfâ€assembling protein system designed to form nanocages. Protein Science, 2014, 23, 190-199.	3.1	30
28	Directed Growth of Biomimetic Microcompartments. Advanced Biology, 2019, 3, e1800314.	3.0	25
29	Structural and Mechanical Hierarchies in the Î±-Crystallin Domain Dimer of the Hyperthermophilic Small Heat Shock Protein Hsp16.5. Journal of Molecular Biology, 2010, 400, 1046-1056.	2.0	23
30	Intracellular Mass Density Increase Is Accompanying but Not Sufficient for Stiffening and Growth Arrest of Yeast Cells. Frontiers in Physics, 2018, 6, .	1.0	23
31	Structural and Functional Analysis of the DEAF-1 and BS69 MYND Domains. PLoS ONE, 2013, 8, e54715.	1.1	20
32	Structural Fuzziness of the RNA-Organizing Protein SERF Determines a Toxic Gain-of-interaction. Journal of Molecular Biology, 2020, 432, 930-951.	2.0	18
33	Filament formation by the translation factor eIF2B regulates protein synthesis in starved cells. Biology Open, 2020, 9, .	0.6	18
34	Ubiquitin protein helps cells to recover from stress. Nature, 2021, 597, 183-184.	13.7	8
35	Matrix-assisted refolding of oligomeric small heat-shock protein Hsp26. International Journal of Biological Macromolecules, 2006, 39, 104-110.	3.6	4
36	Biophysical Techniques for the Study of Phase Transitions in Protein Droplets and Cells. Biophysical Journal, 2018, 114, 204a.	0.2	0

#	Article	IF	Citations
37	Photonic Platform for Detailed Physical Characterization of Liquid Protein Droplets. Biophysical Journal, 2019, 116, 458a.	0.2	0