

Simon Alberti

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

21,588
citations

30070

54
h-index

43889

91
g-index

121
all docs

121
docs citations

121
times ranked

17026
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Electrostatics Govern the Emulsion Stability of Biomolecular Condensates. <i>Nano Letters</i> , 2022, 22, 612-621.	9.1	49
2	Correlative all-optical quantification of mass density and mechanics of subcellular compartments with fluorescence specificity. <i>ELife</i> , 2022, 11, .	6.0	37
3	Phase-separating RNA-binding proteins form heterogeneous distributions of clusters in subsaturated solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	107
4	Reentrant liquid condensate phase of proteins is stabilized by hydrophobic and non-ionic interactions. <i>Nature Communications</i> , 2021, 12, 1085.	12.8	245
5	Protein products of nonstop mRNA disrupt nucleolar homeostasis. <i>Cell Stress and Chaperones</i> , 2021, 26, 549-561.	2.9	7
6	Hsp90-mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. <i>EMBO Reports</i> , 2021, 22, e51740.	4.5	41
7	Reciprocal regulation of cellular mechanics and metabolism. <i>Nature Metabolism</i> , 2021, 3, 456-468.	11.9	40
8	Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. <i>Cell Death and Disease</i> , 2021, 12, 452.	6.3	16
9	Ubiquitin protein helps cells to recover from stress. <i>Nature</i> , 2021, 597, 183-184.	27.8	8
10	HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. <i>ELife</i> , 2021, 10, .	6.0	42
11	Quantitative proteomics identifies the universally conserved ATPase Ola1p as a positive regulator of heat shock response in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2021, 297, 101050.	3.4	6
12	Biomolecular condensates at the nexus of cellular stress, protein aggregation disease and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 196-213.	37.0	535
13	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overclock 10 Tf 50 262 1,430	9.1	1,430
14	Adaptable P body physical states differentially regulate bicoid mRNA storage during early <i>Drosophila</i> development. <i>Developmental Cell</i> , 2021, 56, 2886-2901.e6.	7.0	24
15	Mapping Tumor Spheroid Mechanics in Dependence of 3D Microenvironment Stiffness and Degradability by Brillouin Microscopy. <i>Cancers</i> , 2021, 13, 5549.	3.7	23
16	ALS and FTD: Where RNA metabolism meets protein quality control. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 183-192.	5.0	39
17	BAG3 and BAG6 differentially affect the dynamics of stress granules by targeting distinct subsets of defective polypeptides released from ribosomes. <i>Cell Stress and Chaperones</i> , 2020, 25, 1045-1058.	2.9	7
18	Biomolecular condensates undergo a generic shear-mediated liquid-to-solid transition. <i>Nature Nanotechnology</i> , 2020, 15, 841-847.	31.5	101

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19	The Nuclear SUMO-Targeted Ubiquitin Quality Control Network Regulates the Dynamics of Cytoplasmic Stress Granules. <i>Molecular Cell</i> , 2020, 79, 54-67.e7.	9.7	73
20	Filament formation by the translation factor eIF2B regulates protein synthesis in starved cells. <i>Biology Open</i> , 2020, 9, .	1.2	18
21	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. <i>Cell</i> , 2020, 181, 818-831.e19.	28.9	130
22	Reorganization of budding yeast cytoplasm upon energy depletion. <i>Molecular Biology of the Cell</i> , 2020, 31, 1232-1245.	2.1	39
23	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. <i>Cell</i> , 2020, 181, 346-361.e17.	28.9	557
24	The plant response to heat requires phase separation. <i>Nature</i> , 2020, 585, 191-192.	27.8	7
25	Protein phase separation and its role in tumorigenesis. <i>ELife</i> , 2020, 9, .	6.0	63
26	Prion-like low-complexity sequences: Key regulators of protein solubility and phase behavior. <i>Journal of Biological Chemistry</i> , 2019, 294, 7128-7136.	3.4	178
27	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. <i>EMBO Journal</i> , 2019, 38, e101341.	7.8	58
28	Liquidâ€“Liquid Phase Separation in Disease. <i>Annual Review of Genetics</i> , 2019, 53, 171-194.	7.6	553
29	Nucleolus: A Liquid Droplet Compartment for Misbehaving Proteins. <i>Current Biology</i> , 2019, 29, R930-R932.	3.9	10
30	Nucleoli and Promyelocytic Leukemia Protein (PML) bodies are phase separated nuclear protein quality control compartments for misfolded proteins. <i>Molecular and Cellular Oncology</i> , 2019, 6, e1415624.	0.7	10
31	Considerations and Challenges in Studying Liquid-Liquid Phase Separation and Biomolecular Condensates. <i>Cell</i> , 2019, 176, 419-434.	28.9	1,739
32	The prion-like domain of <i>Drosophila</i> Imp promotes axonal transport of RNP granules in vivo. <i>Nature Communications</i> , 2019, 10, 2593.	12.8	29
33	ERÎ± condensates: chronic stimulation is hard to ignore. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 153-154.	8.2	1
34	FUS pathology in ALS is linked to alterations in multiple ALS-associated proteins and rescued by drugs stimulating autophagy. <i>Acta Neuropathologica</i> , 2019, 138, 67-84.	7.7	94
35	Protein Phase Separation as a Stress Survival Strategy. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019, 11, a034058.	5.5	112
36	Proteome-wide signatures of function in highly diverged intrinsically disordered regions. <i>ELife</i> , 2019, 8, .	6.0	131

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37	RNA buffers the phase separation behavior of prion-like RNA binding proteins. <i>Science</i> , 2018, 360, 918-921.	12.6	837
38	Guilty by Association: Mapping Out the Molecular Sociology of Droplet Compartments. <i>Molecular Cell</i> , 2018, 69, 349-351.	9.7	3
39	Isogenic FUS-eGFP iPSC Reporter Lines Enable Quantification of FUS Stress Granule Pathology that Is Rescued by Drugs Inducing Autophagy. <i>Stem Cell Reports</i> , 2018, 10, 375-389.	4.8	95
40	Non-invasive perturbations of intracellular flow reveal physical principles of cell organization. <i>Nature Cell Biology</i> , 2018, 20, 344-351.	10.3	130
41	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , 2018, 359, .	12.6	534
42	Protein Phase Separation: A New Phase in Cell Biology. <i>Trends in Cell Biology</i> , 2018, 28, 420-435.	7.9	1,439
43	One domain fits all: Using disordered regions to sequester misfolded proteins. <i>Journal of Cell Biology</i> , 2018, 217, 1173-1175.	5.2	7
44	Phase shifts in protein folding space: links to stress adaptation and disease. <i>Molecular Biology of the Cell</i> , 2018, 29, 695-695.	2.1	1
45	Intracellular Mass Density Increase Is Accompanying but Not Sufficient for Stiffening and Growth Arrest of Yeast Cells. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	23
46	Quality Control of Membraneless Organelles. <i>Journal of Molecular Biology</i> , 2018, 430, 4711-4729.	4.2	75
47	A User's Guide for Phase Separation Assays with Purified Proteins. <i>Journal of Molecular Biology</i> , 2018, 430, 4806-4820.	4.2	195
48	A Molecular Grammar Governing the Driving Forces for Phase Separation of Prion-like RNA Binding Proteins. <i>Cell</i> , 2018, 174, 688-699.e16.	28.9	1,372
49	Molecular Chaperones Regulating the Dynamics, Composition and Functionality of RNP Granules: Implications for Age-Related Diseases. <i>Heat Shock Proteins</i> , 2018, , 205-222.	0.2	0
50	Phase changes in neurotransmission. <i>Science</i> , 2018, 361, 548-549.	12.6	6
51	Different Material States of Pub1 Condensates Define Distinct Modes of Stress Adaptation and Recovery. <i>Cell Reports</i> , 2018, 23, 3327-3339.	6.4	183
52	Gel or Die: Phase Separation as a Survival Strategy. <i>Cell</i> , 2017, 168, 947-948.	28.9	53
53	ATP as a biological hydrotrope. <i>Science</i> , 2017, 356, 753-756.	12.6	677
54	Cell adaptation upon stress: the emerging role of membrane-less compartments. <i>Current Opinion in Cell Biology</i> , 2017, 47, 34-42.	5.4	100

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55	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. <i>EMBO Journal</i> , 2017, 36, 1669-1687.	7.8	370
56	The growing world of small heat shock proteins: from structure to functions. <i>Cell Stress and Chaperones</i> , 2017, 22, 601-611.	2.9	158
57	Phase separation in biology. <i>Current Biology</i> , 2017, 27, R1097-R1102.	3.9	323
58	Aberrant Compartment Formation by HSPB2 Mislocalizes Lamin A and Compromises Nuclear Integrity and Function. <i>Cell Reports</i> , 2017, 20, 2100-2115.	6.4	43
59	Features of the Chaperone Cellular Network Revealed through Systematic Interaction Mapping. <i>Cell Reports</i> , 2017, 20, 2735-2748.	6.4	47
60	Local Nucleation of Microtubule Bundles through Tubulin Concentration into a Condensed Tau Phase. <i>Cell Reports</i> , 2017, 20, 2304-2312.	6.4	278
61	The wisdom of crowds: regulating cell function through condensed states of living matter. <i>Journal of Cell Science</i> , 2017, 130, 2789-2796.	2.0	130
62	Granulostasis: Protein Quality Control of RNP Granules. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 84.	2.9	108
63	Studying the Protein Quality Control System of <i>D. discoideum</i> Using Temperature-controlled Live Cell Imaging. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
64	Amyloid-like Self-Assembly of a Cellular Compartment. <i>Cell</i> , 2016, 166, 637-650.	28.9	294
65	A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. <i>Molecular Cell</i> , 2016, 63, 796-810.	9.7	244
66	Are aberrant phase transitions a driver of cellular aging?. <i>BioEssays</i> , 2016, 38, 959-968.	2.5	234
67	A pH-driven transition of the cytoplasm from a fluid- to a solid-like state promotes entry into dormancy. <i>ELife</i> , 2016, 5, .	6.0	355
68	Promiscuous interactions and protein disaggregases determine the material state of stress-inducible RNP granules. <i>ELife</i> , 2015, 4, e06807.	6.0	462
69	<i>Dictyostelium discoideum</i> has a highly Q/N-rich proteome and shows an unusual resilience to protein aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2620-9.	7.1	87
70	Protein misfolding in <i>Dictyostelium</i> : Using a freak of nature to gain insight into a universal problem. <i>Prion</i> , 2015, 9, 339-346.	1.8	19
71	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , 2015, 162, 1066-1077.	28.9	2,182
72	Don't Go with the Cytoplasmic Flow. <i>Developmental Cell</i> , 2015, 34, 381-382.	7.0	2

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73	Filament formation by metabolic enzymes is a specific adaptation to an advanced state of cellular starvation. <i>ELife</i> , 2014, 3, .	6.0	188
74	Fusion of Protein Aggregates Facilitates Asymmetric Damage Segregation. <i>PLoS Biology</i> , 2014, 12, e1001886.	5.6	56
75	HSP70-binding protein HSPBP1 regulates chaperone expression at a posttranslational level and is essential for spermatogenesis. <i>Molecular Biology of the Cell</i> , 2014, 25, 2260-2271.	2.1	25
76	Harnessing the power of yeast to unravel the molecular basis of neurodegeneration. <i>Journal of Neurochemistry</i> , 2013, 127, 438-452.	3.9	82
77	A complete mass-spectrometric map of the yeast proteome applied to quantitative trait analysis. <i>Nature</i> , 2013, 494, 266-270.	27.8	307
78	Protein disorder, prion propensities, and self-organizing macromolecular collectives. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 918-931.	2.3	164
79	Aggregating the Message to Control the Cell Cycle. <i>Developmental Cell</i> , 2013, 25, 551-552.	7.0	1
80	Molecular mechanisms of spatial protein quality control. <i>Prion</i> , 2012, 6, 437-442.	1.8	19
81	Molecular chaperones and stress-inducible protein-sorting factors coordinate the spatiotemporal distribution of protein aggregates. <i>Molecular Biology of the Cell</i> , 2012, 23, 3041-3056.	2.1	191
82	Prion formation by a yeast GLFG nucleoporin. <i>Prion</i> , 2012, 6, 391-399.	1.8	74
83	Opposing Effects of Glutamine and Asparagine Govern Prion Formation by Intrinsically Disordered Proteins. <i>Molecular Cell</i> , 2011, 43, 72-84.	9.7	174
84	Prions, protein homeostasis, and phenotypic diversity. <i>Trends in Cell Biology</i> , 2010, 20, 125-133.	7.9	153
85	Biochemical, Cell Biological, and Genetic Assays to Analyze Amyloid and Prion Aggregation in Yeast. <i>Methods in Enzymology</i> , 2010, 470, 709-734.	1.0	68
86	A Systematic Survey Identifies Prions and Illuminates Sequence Features of Prionogenic Proteins. <i>Cell</i> , 2009, 137, 146-158.	28.9	901
87	A suite of Gateway®cloning vectors for high-throughput genetic analysis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2007, 24, 913-919.	1.7	419
88	BAG-2 Acts as an Inhibitor of the Chaperone-associated Ubiquitin Ligase CHIP. <i>Molecular Biology of the Cell</i> , 2005, 16, 5891-5900.	2.1	170
89	The Cochaperone HspBP1 Inhibits the CHIP Ubiquitin Ligase and Stimulates the Maturation of the Cystic Fibrosis Transmembrane Conductance Regulator. <i>Molecular Biology of the Cell</i> , 2004, 15, 4003-4010.	2.1	170
90	Ubiquitylation of BAG-1 Suggests a Novel Regulatory Mechanism during the Sorting of Chaperone Substrates to the Proteasome. <i>Journal of Biological Chemistry</i> , 2002, 277, 45920-45927.	3.4	179

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91	Cooperation of a ubiquitin domain protein and an E3 ubiquitin ligase during chaperone/proteasome coupling. <i>Current Biology</i> , 2001, 11, 1569-1577.	3.9	365
92	How to apply FLUCS in single cells and living embryos. <i>Protocol Exchange</i> , 0, , .	0.3	2