

Amy S Gladfelter

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

7,645
citations

117453

34
h-index

123241

61
g-index

80
all docs

80
docs citations

80
times ranked

7708
citing authors

#	ARTICLE	IF	CITATIONS
1	Design considerations for analyzing protein translation regulation by condensates. <i>Rna</i> , 2022, 28, 88-96.	1.6	5
2	Dilute phase oligomerization can oppose phase separation and modulate material properties of a ribonucleoprotein condensate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120799119.	3.3	53
3	Membrane surfaces regulate assembly of ribonucleoprotein condensates. <i>Nature Cell Biology</i> , 2022, 24, 461-470.	4.6	68
4	RNA contributions to the form and function of biomolecular condensates. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 183-195.	16.1	353
5	The state of the septin cytoskeleton from assembly to function. <i>Current Opinion in Cell Biology</i> , 2021, 68, 105-112.	2.6	82
6	HSP70 chaperones RNA-free TDP-43 into anisotropic intranuclear liquid spherical shells. <i>Science</i> , 2021, 371, .	6.0	200
7	Culturing and Multiplexed Time-lapse Imaging of Fungal Isolates from Marine and Coastal Environments. <i>Current Protocols</i> , 2021, 1, e94.	1.3	2
8	Moving beyond disease to function: Physiological roles for polyglutamine-rich sequences in cell decisions. <i>Current Opinion in Cell Biology</i> , 2021, 69, 120-126.	2.6	7
9	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021, 18, 041501.	0.8	29
10	Role of spatial patterning of N-protein interactions in SARS-CoV-2 genome packaging. <i>Biophysical Journal</i> , 2021, 120, 2771-2784.	0.2	20
11	Evolution and Physiology of Amphibious Yeasts. <i>Annual Review of Microbiology</i> , 2021, 75, 337-357.	2.9	3
12	Getting droplets into shape. <i>Science</i> , 2021, 373, 1198-1199.	6.0	2
13	Interplay of septin amphipathic helices in sensing membrane-curvature and filament bundling. <i>Molecular Biology of the Cell</i> , 2021, 32, br5.	0.9	10
14	Quantitative single molecule RNA-FISH and RNase-free cell wall digestion in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2021, 156, 103615.	0.9	3
15	The hierarchical assembly of septins revealed by high-speed AFM. <i>Nature Communications</i> , 2020, 11, 5062.	5.8	35
16	Shed Light in the DaRk LineagES of the Fungal Tree of Life—STRES. <i>Life</i> , 2020, 10, 362.	1.1	16
17	Genomic RNA Elements Drive Phase Separation of the SARS-CoV-2 Nucleocapsid. <i>Molecular Cell</i> , 2020, 80, 1078-1091.e6.	4.5	255
18	Spatial heterogeneity of the cytosol revealed by machine learning-based 3D particle tracking. <i>Molecular Biology of the Cell</i> , 2020, 31, 1498-1511.	0.9	11

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19	Phosphoregulation provides specificity to biomolecular condensates in the cell cycle and cell polarity. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	18
20	FXR1 splicing is important for muscle development and biomolecular condensates in muscle cells. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	30
21	Guanidine hydrochloride reactivates an ancient septin hetero-oligomer assembly pathway in budding yeast. <i>ELife</i> , 2020, 9, .	2.8	15
22	The Control Centers of Biomolecular Phase Separation: How Membrane Surfaces, PTMs, and Active Processes Regulate Condensation. <i>Molecular Cell</i> , 2019, 76, 295-305.	4.5	223
23	Unconventional Cell Division Cycles from Marine-Derived Yeasts. <i>Current Biology</i> , 2019, 29, 3439-3456.e5.	1.8	37
24	Zika Virus Protease Cleavage of Host Protein Septin-2 Mediates Mitotic Defects in Neural Progenitors. <i>Neuron</i> , 2019, 101, 1089-1098.e4.	3.8	55
25	Considerations and Challenges in Studying Liquid-Liquid Phase Separation and Biomolecular Condensates. <i>Cell</i> , 2019, 176, 419-434.	13.5	1,739
26	An amphipathic helix enables septins to sense micrometer-scale membrane curvature. <i>Journal of Cell Biology</i> , 2019, 218, 1128-1137.	2.3	86
27	Marine fungi. <i>Current Biology</i> , 2019, 29, R191-R195.	1.8	88
28	Fungi in the Marine Environment: Open Questions and Unsolved Problems. <i>MBio</i> , 2019, 10, .	1.8	200
29	Partial demixing of RNA-protein complexes leads to intradroplet patterning in phase-separated biological condensates. <i>Physical Review E</i> , 2019, 99, 012411.	0.8	24
30	mRNA structure determines specificity of a polyQ-driven phase separation. <i>Science</i> , 2018, 360, 922-927.	6.0	421
31	Control of septin filament flexibility and bundling by subunit composition and nucleotide interactions. <i>Molecular Biology of the Cell</i> , 2018, 29, 702-712.	0.9	19
32	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. <i>Journal of Cell Biology</i> , 2018, 217, 1869-1882.	2.3	64
33	Probing RNA Structure in Liquid-Liquid Phase Separation Using SHAPE-MaP. <i>Methods in Enzymology</i> , 2018, 611, 67-79.	0.4	11
34	A New Lens for RNA Localization: Liquid-Liquid Phase Separation. <i>Annual Review of Microbiology</i> , 2018, 72, 255-271.	2.9	108
35	The Unsolved Problem of How Cells Sense Micron-Scale Curvature. <i>Trends in Biochemical Sciences</i> , 2017, 42, 961-976.	3.7	31
36	Lessons from Yeast on How to Avoid Stress Eating. <i>Developmental Cell</i> , 2017, 43, 3-5.	3.1	1

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37	What your PI forgot to tell you: why you actually might want a job running a research lab. <i>Molecular Biology of the Cell</i> , 2017, 28, 1724-1727.	0.9	0
38	Analysis of Septin Reorganization at Cytokinesis Using Polarized Fluorescence Microscopy. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 42.	1.8	40
39	Micron-scale plasma membrane curvature is recognized by the septin cytoskeleton. <i>Journal of Cell Biology</i> , 2016, 213, 23-32.	2.3	169
40	Dissection of molecular assembly dynamics by tracking orientation and position of single molecules in live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6352-E6361.	3.3	76
41	Clustered nuclei maintain autonomy and nucleocytoplasmic ratio control in a syncytium. <i>Molecular Biology of the Cell</i> , 2016, 27, 2000-2007.	0.9	37
42	Polarized Fluorescence Microscopy to Study Cytoskeleton Assembly and Organization in Live Cells. <i>Current Protocols in Cell Biology</i> , 2015, 67, 4.29.1-4.29.13.	2.3	12
43	Cytoskeletal dynamics: A view from the membrane. <i>Journal of Cell Biology</i> , 2015, 209, 329-337.	2.3	147
44	RNA Controls PolyQ Protein Phase Transitions. <i>Molecular Cell</i> , 2015, 60, 220-230.	4.5	605
45	Septin Form and Function at the Cell Cortex. <i>Journal of Biological Chemistry</i> , 2015, 290, 17173-17180.	1.6	119
46	Absolute Arrangement of Subunits in Cytoskeletal Septin Filaments in Cells Measured by Fluorescence Microscopy. <i>Nano Letters</i> , 2015, 15, 3859-3864.	4.5	28
47	PolyQ-dependent RNA-protein assemblies control symmetry breaking. <i>Journal of Cell Biology</i> , 2015, 208, 533-544.	2.3	89
48	Septin assemblies form by diffusion-driven annealing on membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2146-2151.	3.3	162
49	Nuclear Repulsion Enables Division Autonomy in a Single Cytoplasm. <i>Current Biology</i> , 2013, 23, 1999-2010.	1.8	57
50	Protein Aggregation Behavior Regulates Cyclin Transcript Localization and Cell-Cycle Control. <i>Developmental Cell</i> , 2013, 25, 572-584.	3.1	103
51	Septin Phosphorylation and Coiled-Coil Domains Function in Cell and Septin Ring Morphology in the Filamentous Fungus <i>Ashbya gossypii</i> . <i>Eukaryotic Cell</i> , 2013, 12, 182-193.	3.4	31
52	Rapid and Quantitative Imaging of Excitation Polarized Fluorescence Reveals Ordered Septin Dynamics in Live Yeast. <i>Biophysical Journal</i> , 2011, 101, 985-994.	0.2	72
53	Septin filaments exhibit a dynamic, paired organization that is conserved from yeast to mammals. <i>Journal of Cell Biology</i> , 2011, 193, 1065-1081.	2.3	108
54	Physical interaction between VIVID and white collar complex regulates photoadaptation in <i>Neurospora</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16715-16720.	3.3	138

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55	A conserved G ₁ regulatory circuit promotes asynchronous behavior of nuclei sharing a common cytoplasm. <i>Cell Cycle</i> , 2010, 9, 3795-3803.	1.3	26
56	Regulation of Distinct Septin Rings in a Single Cell by Elm1p and Gin4p Kinases. <i>Molecular Biology of the Cell</i> , 2009, 20, 2311-2326.	0.9	70
57	Asynchronous nuclear division cycles in multinucleated cells. <i>Journal of Cell Biology</i> , 2006, 172, 347-362.	2.3	115
58	Interplay between septin organization, cell cycle and cell shape in yeast. <i>Journal of Cell Science</i> , 2005, 118, 1617-1628.	1.2	116
59	Genetic Interactions among Regulators of Septin Organization. <i>Eukaryotic Cell</i> , 2004, 3, 847-854.	3.4	47
60	Scaffold-mediated symmetry breaking by Cdc42p. <i>Nature Cell Biology</i> , 2003, 5, 1062-1070.	4.6	248
61	Septin ring assembly involves cycles of GTP loading and hydrolysis by Cdc42p. <i>Journal of Cell Biology</i> , 2002, 156, 315-326.	2.3	170
62	The septin cortex at the yeast mother-Å“bud neck. <i>Current Opinion in Microbiology</i> , 2001, 4, 681-689.	2.3	304
63	Yeast Cdc42 functions at a late step in exocytosis, specifically during polarized growth of the emerging bud. <i>Journal of Cell Biology</i> , 2001, 155, 581-592.	2.3	151