

# Amy S Gladfelter

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3588153/publications.pdf>

Version: 2024-02-01

63  
papers

7,645  
citations

117571

34  
h-index

123376

61  
g-index

80  
all docs

80  
docs citations

80  
times ranked

7708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerations and Challenges in Studying Liquid-Liquid Phase Separation and Biomolecular Condensates. <i>Cell</i> , 2019, 176, 419-434.	13.5	1,739
2	RNA Controls PolyQ Protein Phase Transitions. <i>Molecular Cell</i> , 2015, 60, 220-230.	4.5	605
3	mRNA structure determines specificity of a polyQ-driven phase separation. <i>Science</i> , 2018, 360, 922-927.	6.0	421
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 septin cortex at the yeast mother-bud neck. <i>Current Opinion in Microbiology</i> , 2001, 4, 681-689.	2.3	304
6	Genomic RNA Elements Drive Phase Separation of the SARS-CoV-2 Nucleocapsid. <i>Molecular Cell</i> , 2020, 80, 1078-1091.e6.	4.5	255
7	Scaffold-mediated symmetry breaking by Cdc42p. <i>Nature Cell Biology</i> , 2003, 5, 1062-1070.	4.6	248
8	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
9	Fungi in the Marine Environment: Open Questions and Unsolved Problems. <i>MBio</i> , 2019, 10, .	1.8	200
10	HSP70 chaperones RNA-free TDP-43 into anisotropic intranuclear liquid spherical shells. <i>Science</i> , 2021, 371, .	6.0	200
11	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
12	Micron-scale plasma membrane curvature is recognized by the septin cytoskeleton. <i>Journal of Cell Biology</i> , 2016, 213, 23-32.	2.3	169
13	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
14	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
15	Cytoskeletal dynamics: A view from the membrane. <i>Journal of Cell Biology</i> , 2015, 209, 329-337.	2.3	147
16	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
17	Septin Form and Function at the Cell Cortex. <i>Journal of Biological Chemistry</i> , 2015, 290, 17173-17180.	1.6	119
18	Interplay between septin organization, cell cycle and cell shape in yeast. <i>Journal of Cell Science</i> , 2005, 118, 1617-1628.	1.2	116

#	ARTICLE	IF	CITATIONS
19	Asynchronous nuclear division cycles in multinucleated cells. <i>Journal of Cell Biology</i> , 2006, 172, 347-362.	2.3	115
20	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
21	A New Lens for RNA Localization: Liquid-Liquid Phase Separation. <i>Annual Review of Microbiology</i> , 2018, 72, 255-271.	2.9	108
22	Protein Aggregation Behavior Regulates Cyclin Transcript Localization and Cell-Cycle Control. <i>Developmental Cell</i> , 2013, 25, 572-584.	3.1	103
23	PolyQ-dependent RNA-protein assemblies control symmetry breaking. <i>Journal of Cell Biology</i> , 2015, 208, 533-544.	2.3	89
24	Marine fungi. <i>Current Biology</i> , 2019, 29, R191-R195.	1.8	88
25	An amphipathic helix enables septins to sense micrometer-scale membrane curvature. <i>Journal of Cell Biology</i> , 2019, 218, 1128-1137.	2.3	86
26	The state of the septin cytoskeleton from assembly to function. <i>Current Opinion in Cell Biology</i> , 2021, 68, 105-112.	2.6	82
27	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
28	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
29	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
30	Membrane surfaces regulate assembly of ribonucleoprotein condensates. <i>Nature Cell Biology</i> , 2022, 24, 461-470.	4.6	68
31	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
32	Nuclear Repulsion Enables Division Autonomy in a Single Cytoplasm. <i>Current Biology</i> , 2013, 23, 1999-2010.	1.8	57
33	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
34	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
35	Genetic Interactions among Regulators of Septin Organization. <i>Eukaryotic Cell</i> , 2004, 3, 847-854.	3.4	47
36	Analysis of Septin Reorganization at Cytokinesis Using Polarized Fluorescence Microscopy. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 42.	1.8	40

#	ARTICLE	IF	CITATIONS
37	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
38	Unconventional Cell Division Cycles from Marine-Derived Yeasts. <i>Current Biology</i> , 2019, 29, 3439-3456.e5.	1.8	37
39	The hierarchical assembly of septins revealed by high-speed AFM. <i>Nature Communications</i> , 2020, 11, 5062.	5.8	35
40	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
41	The Unsolved Problem of How Cells Sense Micron-Scale Curvature. <i>Trends in Biochemical Sciences</i> , 2017, 42, 961-976.	3.7	31
42	FXR1 splicing is important for muscle development and biomolecular condensates in muscle cells. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	30
43	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021, 18, 041501.	0.8	29
44	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
45	A conserved G<sub>1</sub> regulatory circuit promotes asynchronous behavior of nuclei sharing a common cytoplasm. <i>Cell Cycle</i> , 2010, 9, 3795-3803.	1.3	26
46	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
47	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
48	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
49	Phosphoregulation provides specificity to biomolecular condensates in the cell cycle and cell polarity. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	18
50	Shed Light in the DaRk LineagES of the Fungal Tree of Lifeâ€™STRES. <i>Life</i> , 2020, 10, 362.	1.1	16
51	Guanidine hydrochloride reactivates an ancient septin hetero-oligomer assembly pathway in budding yeast. <i>ELife</i> , 2020, 9, .	2.8	15
52	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
53	Probing RNA Structure in Liquidâ€™Liquid Phase Separation Using SHAPE-MaP. <i>Methods in Enzymology</i> , 2018, 611, 67-79.	0.4	11
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Design considerations for analyzing protein translation regulation by condensates. <i>Rna</i> , 2022, 28, 88-96.	1.6	5
58	Evolution and Physiology of Amphibious Yeasts. <i>Annual Review of Microbiology</i> , 2021, 75, 337-357.	2.9	3
59	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
60	Culturing and Multiplexed Time-lapse Imaging of Fungal Isolates from Marine and Coastal Environments. <i>Current Protocols</i> , 2021, 1, e94.	1.3	2
61	Getting droplets into shape. <i>Science</i> , 2021, 373, 1198-1199.	6.0	2
62	Lessons from Yeast on How to Avoid Stress Eating. <i>Developmental Cell</i> , 2017, 43, 3-5.	3.1	1
63	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