

# Michael K Rosen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81  
papers

12,543  
citations

43  
h-index

98  
g-index

98  
ext. papers

16,560  
ext. citations

18.9  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
81	Biomolecular condensates: organizers of cellular biochemistry. <i>Nature Reviews Molecular Cell Biology</i> , <b>2017</b> , 18, 285-298	48.7	2036
80	Phase transitions in the assembly of multivalent signalling proteins. <i>Nature</i> , <b>2012</b> , 483, 336-40	50.4	1256
79	Formation and Maturation of Phase-Separated Liquid Droplets by RNA-Binding Proteins. <i>Molecular Cell</i> , <b>2015</b> , 60, 208-19	17.6	921
78	Autoinhibition and activation mechanisms of the Wiskott-Aldrich syndrome protein. <i>Nature</i> , <b>2000</b> , 404, 151-8	50.4	616
77	Phase separation of signaling molecules promotes T cell receptor signal transduction. <i>Science</i> , <b>2016</b> , 352, 595-9	33.3	568
76	Compositional Control of Phase-Separated Cellular Bodies. <i>Cell</i> , <b>2016</b> , 166, 651-663	56.2	555
75	Sequence Determinants of Intracellular Phase Separation by Complex Coacervation of a Disordered Protein. <i>Molecular Cell</i> , <b>2016</b> , 63, 72-85	17.6	395
74	Organization of Chromatin by Intrinsic and Regulated Phase Separation. <i>Cell</i> , <b>2019</b> , 179, 470-484.e21	56.2	361
73	Constitutively activating mutation in WASP causes X-linked severe congenital neutropenia. <i>Nature Genetics</i> , <b>2001</b> , 27, 313-7	36.3	355
72	Structure and control of the actin regulatory WAVE complex. <i>Nature</i> , <b>2010</b> , 468, 533-8	50.4	324
71	Phase transitions of multivalent proteins can promote clustering of membrane receptors. <i>ELife</i> , <b>2014</b> , 3,	8.9	301
70	Structure of Cdc42 in complex with the GTPase-binding domain of the Wiskott-Aldrich syndromeV protein. <i>Nature</i> , <b>1999</b> , 399, 379-83	50.4	289
69	Intrinsically disordered linkers determine the interplay between phase separation and gelation in multivalent proteins. <i>ELife</i> , <b>2017</b> , 6,	8.9	285
68	Selective methyl group protonation of perdeuterated proteins. <i>Journal of Molecular Biology</i> , <b>1996</b> , 263, 627-36	6.5	272
67	Stoichiometry controls activity of phase-separated clusters of actin signaling proteins. <i>Science</i> , <b>2019</b> , 363, 1093-1097	33.3	194
66	Physical mechanisms of signal integration by WASP family proteins. <i>Annual Review of Biochemistry</i> , <b>2010</b> , 79, 707-35	29.1	190
65	The WAVE regulatory complex links diverse receptors to the actin cytoskeleton. <i>Cell</i> , <b>2014</b> , 156, 195-207	56.2	189

64	Nuclear Import Receptor Inhibits Phase Separation of FUS through Binding to Multiple Sites. <i>Cell</i> , <b>2018</b> , 173, 693-705.e22	56.2	177
63	Intrinsically disordered sequences enable modulation of protein phase separation through distributed tyrosine motifs. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19110-19120	5.4	177
62	Intrinsically Disordered Regions Can Contribute Promiscuous Interactions to RNP Granule Assembly. <i>Cell Reports</i> , <b>2018</b> , 22, 1401-1412	10.6	165
61	Hierarchical regulation of WASP/WAVE proteins. <i>Molecular Cell</i> , <b>2008</b> , 32, 426-38	17.6	159
60	Regulation of WASH-dependent actin polymerization and protein trafficking by ubiquitination. <i>Cell</i> , <b>2013</b> , 152, 1051-64	56.2	155
59	Contingent phosphorylation/dephosphorylation provides a mechanism of molecular memory in WASP. <i>Molecular Cell</i> , <b>2003</b> , 11, 1215-27	17.6	148
58	Arp2/3 complex is bound and activated by two WASP proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E472-9	11.5	140
57	Who's In and Who's Out-Compositional Control of Biomolecular Condensates. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 4666-4684	6.5	139
56	Wasp recruitment to the T cell:APC contact site occurs independently of Cdc42 activation. <i>Immunity</i> , <b>2001</b> , 15, 249-59	32.3	136
55	A framework for understanding the functions of biomolecular condensates across scales. <i>Nature Reviews Molecular Cell Biology</i> , <b>2021</b> , 22, 215-235	48.7	125
54	Retromer binding to FAM21 and the WASH complex is perturbed by the Parkinson disease-linked VPS35(D620N) mutation. <i>Current Biology</i> , <b>2014</b> , 24, 1670-1676	6.3	118
53	Structure and mutagenesis of the Dbl homology domain. <i>Nature Structural Biology</i> , <b>1998</b> , 5, 1098-107		116
52	The WAVE regulatory complex is inhibited. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 561-3	17.6	112
51	Conserved interdomain linker promotes phase separation of the multivalent adaptor protein Nck. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6426-35	11.5	107
50	Regulation of Transmembrane Signaling by Phase Separation. <i>Annual Review of Biophysics</i> , <b>2019</b> , 48, 465-494	21.1	102
49	Local F-actin network links synapse formation and axon branching. <i>Cell</i> , <b>2014</b> , 156, 208-20	56.2	96
48	Structural mechanism of WASP activation by the enterohaemorrhagic E. coli effector EspF(U). <i>Nature</i> , <b>2008</b> , 454, 1009-13	50.4	82
47	Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites. <i>ELife</i> , <b>2017</b> , 6,	8.9	80

46	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , <b>2016</b> , 7, 10882	17.4	78
45	Three-color single molecule imaging shows WASP detachment from Arp2/3 complex triggers actin filament branch formation. <i>ELife</i> , <b>2013</b> , 2, e01008	8.9	71
44	Protein-tyrosine kinase and GTPase signals cooperate to phosphorylate and activate Wiskott-Aldrich syndrome protein (WASP)/neuronal WASP. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3513-20	5.4	70
43	Ena/VASP proteins cooperate with the WAVE complex to regulate the actin cytoskeleton. <i>Developmental Cell</i> , <b>2014</b> , 30, 569-84	10.2	68
42	Structural and mechanistic insights into regulation of the retromer coat by TBC1d5. <i>Nature Communications</i> , <b>2016</b> , 7, 13305	17.4	57
41	A two-state allosteric model for autoinhibition rationalizes WASP signal integration and targeting. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 271-85	6.5	49
40	Uncoupling Kapbeta2 substrate dissociation and ran binding. <i>Biochemistry</i> , <b>2002</b> , 41, 6955-66	3.2	46
39	A composition-dependent molecular clutch between T cell signaling condensates and actin. <i>ELife</i> , <b>2019</b> , 8,	8.9	46
38	Measurement and analysis of in vitro actin polymerization. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1046, 273-93	1.4	43
37	Fat2 acts through the WAVE regulatory complex to drive collective cell migration during tissue rotation. <i>Journal of Cell Biology</i> , <b>2016</b> , 212, 591-603	7.3	38
36	Methyl labeling and TROSY NMR spectroscopy of proteins expressed in the eukaryote <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 62, 239-45	3	37
35	A quantitative inventory of yeast P body proteins reveals principles of composition and specificity. <i>ELife</i> , <b>2020</b> , 9,	8.9	36
34	Mechanistic dissection of increased enzymatic rate in a phase-separated compartment. <i>Nature Chemical Biology</i> , <b>2021</b> , 17, 693-702	11.7	36
33	The bacterial effector VopL organizes actin into filament-like structures. <i>Cell</i> , <b>2013</b> , 155, 423-34	56.2	35
32	Determination of protein complex stoichiometry through multisignal sedimentation velocity experiments. <i>Analytical Biochemistry</i> , <b>2010</b> , 407, 89-103	3.1	35
31	Actin is an evolutionarily-conserved damage-associated molecular pattern that signals tissue injury in. <i>ELife</i> , <b>2016</b> , 5,	8.9	34
30	ATP controls the crowd. <i>Science</i> , <b>2017</b> , 356, 701-702	33.3	33
29	Crystal structure of the Formin mDia1 in autoinhibited conformation. <i>PLoS ONE</i> , <b>2010</b> , 5, e12896	3.7	32

28	Dynamin regulates the dynamics and mechanical strength of the actin cytoskeleton as a multifilament actin-bundling protein. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 674-688	23.4	32
27	Phosphorylation of nephrin induces phase separated domains that move through actomyosin contraction. <i>Molecular Biology of the Cell</i> , <b>2019</b> , 30, 2996-3012	3.5	18
26	The role of sigma 1 receptor in organization of endoplasmic reticulum signaling microdomains. <i>ELife</i> , <b>2021</b> , 10,	8.9	18
25	Synthesis and Biological Evaluation of Kibdelone C and Its Simplified Derivatives. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10561-70	16.4	17
24	NMR detection of side chain-side chain hydrogen bonding interactions in <sup>13</sup> C/ <sup>15</sup> N-labeled proteins. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 17, 305-10	3	17
23	Reconstitution of TCR Signaling Using Supported Lipid Bilayers. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1584, 65-76	1.4	15
22	Karyopherins and condensates. <i>Current Opinion in Cell Biology</i> , <b>2020</b> , 64, 112-123	9	15
21	Detection of very weak side chain-main chain hydrogen bonding interactions in medium-size <sup>13</sup> C/ <sup>15</sup> N-labeled proteins by sensitivity-enhanced NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 17, 79-82	3	13
20	Allosteric Modulation of Grb2 Recruitment to the Intrinsically Disordered Scaffold Protein, LAT, by Remote Site Phosphorylation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18009-18015	16.4	12
19	Biochemical reconstitution of the WAVE regulatory complex. <i>Methods in Enzymology</i> , <b>2014</b> , 540, 55-72	1.7	11
18	Structural biology. Flipping a switch. <i>Science</i> , <b>2001</b> , 291, 2329-30	33.3	11
17	Inhibition of CRISPR-Cas12a DNA targeting by nucleosomes and chromatin. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	8
16	Author response: Intrinsically disordered linkers determine the interplay between phase separation and gelation in multivalent proteins <b>2017</b> ,		7
15	Phase Separation Can Increase Enzyme Activity by Concentration and Molecular Organization		7
14	Mechanistic Studies of Affinity Modulation. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11979-11982	10.2	6
13	Purification of native Arp2/3 complex from bovine thymus. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1046, 231-50	1.4	6
12	A quantitative inventory of yeast P body proteins reveals principles of composition and specificity		6
11	Structure-Function Properties in Disordered Condensates. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 467-476	3.4	5

10	Synergistic phase separation of two pathways promotes integrin clustering and nascent adhesion formation.. <i>ELife</i> , <b>2022</b> , 11,	8.9	4
9	Improved strategy for isoleucine H/C methyl labeling in <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , <b>2019</b> , 73, 687-697	3	3
8	Author response: Phase transitions of multivalent proteins can promote clustering of membrane receptors <b>2014</b> ,		2
7	Author response: Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites <b>2017</b> ,		2
6	Phosphorylation of Nephrin induces phase separated domains that move through actomyosin contraction		2
5	The role of sigma-1 receptor in organization of endoplasmic reticulum signaling microdomains		1
4	Poly-glutamine-dependent self-association as a potential mechanism for regulation of androgen receptor activity.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0258876	3.7	0
3	Development of a Chemical- and Photo-Switchable Wiskott-Aldrich Syndrome Protein. <i>FASEB Journal</i> , <b>2007</b> , 21, A994	0.9	
2	Lit-structure in the dark: conformational dynamics of phototropin LOV2 domain by relaxation NMR. <i>FASEB Journal</i> , <b>2007</b> , 21, A270	0.9	
1	Beth Levine M.D. Prize in Autophagy Research. <i>Autophagy</i> ,1-1	10.2	