

Michael K Rosen

List of Publications by Year in Descending Order

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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	Synergistic phase separation of two pathways promotes integrin clustering and nascent adhesion formation.. <i>ELife</i> , 2022 , 11,	8.9	4
80	Poly-glutamine-dependent self-association as a potential mechanism for regulation of androgen receptor activity.. <i>PLoS ONE</i> , 2022 , 17, e0258876	3.7	0
79	Inhibition of CRISPR-Cas12a DNA targeting by nucleosomes and chromatin. <i>Science Advances</i> , 2021 , 7,	14.3	8
78	Mechanistic dissection of increased enzymatic rate in a phase-separated compartment. <i>Nature Chemical Biology</i> , 2021 , 17, 693-702	11.7	36
77	The role of sigma 1 receptor in organization of endoplasmic reticulum signaling microdomains. <i>ELife</i> , 2021 , 10,	8.9	18
76	A framework for understanding the functions of biomolecular condensates across scales. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 215-235	48.7	125
75	Structure-Function Properties in Disordered Condensates. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 467-476	3.4	5
74	Karyopherins and condensates. <i>Current Opinion in Cell Biology</i> , 2020 , 64, 112-123	9	15
73	A quantitative inventory of yeast P body proteins reveals principles of composition and specificity. <i>ELife</i> , 2020 , 9,	8.9	36
72	Dynamin regulates the dynamics and mechanical strength of the actin cytoskeleton as a multifilament actin-bundling protein. <i>Nature Cell Biology</i> , 2020 , 22, 674-688	23.4	32
71	Organization of Chromatin by Intrinsic and Regulated Phase Separation. <i>Cell</i> , 2019 , 179, 470-484.e21	56.2	361
70	Improved strategy for isoleucine H/C methyl labeling in <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , 2019 , 73, 687-697	3	3
69	Stoichiometry controls activity of phase-separated clusters of actin signaling proteins. <i>Science</i> , 2019 , 363, 1093-1097	33.3	194
68	Regulation of Transmembrane Signaling by Phase Separation. <i>Annual Review of Biophysics</i> , 2019 , 48, 465-494	21.1	102
67	Phosphorylation of nephrin induces phase separated domains that move through actomyosin contraction. <i>Molecular Biology of the Cell</i> , 2019 , 30, 2996-3012	3.5	18
66	A composition-dependent molecular clutch between T cell signaling condensates and actin. <i>ELife</i> , 2019 , 8,	8.9	46
65	Nuclear Import Receptor Inhibits Phase Separation of FUS through Binding to Multiple Sites. <i>Cell</i> , 2018 , 173, 693-705.e22	56.2	177

64	Intrinsically Disordered Regions Can Contribute Promiscuous Interactions to RNP Granule Assembly. <i>Cell Reports</i> , 2018 , 22, 1401-1412	10.6	165
63	Who's In and Who's Out-Compositional Control of Biomolecular Condensates. <i>Journal of Molecular Biology</i> , 2018 , 430, 4666-4684	6.5	139
62	Biomolecular condensates: organizers of cellular biochemistry. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 285-298	48.7	2036
61	Reconstitution of TCR Signaling Using Supported Lipid Bilayers. <i>Methods in Molecular Biology</i> , 2017 , 1584, 65-76	1.4	15
60	ATP controls the crowd. <i>Science</i> , 2017 , 356, 701-702	33.3	33
59	Intrinsically disordered linkers determine the interplay between phase separation and gelation in multivalent proteins. <i>ELife</i> , 2017 , 6,	8.9	285
58	Intrinsically disordered sequences enable modulation of protein phase separation through distributed tyrosine motifs. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19110-19120	5.4	177
57	Allosteric Modulation of Grb2 Recruitment to the Intrinsically Disordered Scaffold Protein, LAT, by Remote Site Phosphorylation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18009-18015	16.4	12
56	Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites. <i>ELife</i> , 2017 , 6,	8.9	80
55	Author response: Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites 2017 ,		2
54	Author response: Intrinsically disordered linkers determine the interplay between phase separation and gelation in multivalent proteins 2017 ,		7
53	Synthesis and Biological Evaluation of Kibdelone C and Its Simplified Derivatives. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10561-70	16.4	17
52	Structural and mechanistic insights into regulation of the retromer coat by TBC1d5. <i>Nature Communications</i> , 2016 , 7, 13305	17.4	57
51	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016 , 7, 10882	17.4	78
50	Fat2 acts through the WAVE regulatory complex to drive collective cell migration during tissue rotation. <i>Journal of Cell Biology</i> , 2016 , 212, 591-603	7.3	38
49	Actin is an evolutionarily-conserved damage-associated molecular pattern that signals tissue injury in. <i>ELife</i> , 2016 , 5,	8.9	34
48	Compositional Control of Phase-Separated Cellular Bodies. <i>Cell</i> , 2016 , 166, 651-663	56.2	555
47	Sequence Determinants of Intracellular Phase Separation by Complex Coacervation of a Disordered Protein. <i>Molecular Cell</i> , 2016 , 63, 72-85	17.6	395

46	Phase separation of signaling molecules promotes T cell receptor signal transduction. <i>Science</i> , 2016 , 352, 595-9	33.3	568
45	Formation and Maturation of Phase-Separated Liquid Droplets by RNA-Binding Proteins. <i>Molecular Cell</i> , 2015 , 60, 208-19	17.6	921
44	Methyl labeling and TROSY NMR spectroscopy of proteins expressed in the eukaryote <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , 2015 , 62, 239-45	3	37
43	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> , 2015 , 112, E6426-35	11.5	107
42	Local F-actin network links synapse formation and axon branching. <i>Cell</i> , 2014 , 156, 208-20	56.2	96
41	The WAVE regulatory complex links diverse receptors to the actin cytoskeleton. <i>Cell</i> , 2014 , 156, 195-207	56.2	189
40	Ena/VASP proteins cooperate with the WAVE complex to regulate the actin cytoskeleton. <i>Developmental Cell</i> , 2014 , 30, 569-84	10.2	68
39	Retromer binding to FAM21 and the WASH complex is perturbed by the Parkinson disease-linked VPS35(D620N) mutation. <i>Current Biology</i> , 2014 , 24, 1670-1676	6.3	118
38	Biochemical reconstitution of the WAVE regulatory complex. <i>Methods in Enzymology</i> , 2014 , 540, 55-72	1.7	11
37	Phase transitions of multivalent proteins can promote clustering of membrane receptors. <i>ELife</i> , 2014 , 3,	8.9	301
36	Author response: Phase transitions of multivalent proteins can promote clustering of membrane receptors 2014 ,		2
35	The bacterial effector VopL organizes actin into filament-like structures. <i>Cell</i> , 2013 , 155, 423-34	56.2	35
34	Regulation of WASH-dependent actin polymerization and protein trafficking by ubiquitination. <i>Cell</i> , 2013 , 152, 1051-64	56.2	155
33	Three-color single molecule imaging shows WASP detachment from Arp2/3 complex triggers actin filament branch formation. <i>ELife</i> , 2013 , 2, e01008	8.9	71
32	Purification of native Arp2/3 complex from bovine thymus. <i>Methods in Molecular Biology</i> , 2013 , 1046, 231-50	1.4	6
31	Measurement and analysis of in vitro actin polymerization. <i>Methods in Molecular Biology</i> , 2013 , 1046, 273-93	1.4	43
30	Phase transitions in the assembly of multivalent signalling proteins. <i>Nature</i> , 2012 , 483, 336-40	50.4	1256
29	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> , 2011 , 108, E472-9	11.5	140

28	Crystal structure of the Formin mDia1 in autoinhibited conformation. <i>PLoS ONE</i> , 2010 , 5, e12896	3.7	32
27	Physical mechanisms of signal integration by WASP family proteins. <i>Annual Review of Biochemistry</i> , 2010 , 79, 707-35	29.1	190
26	Structure and control of the actin regulatory WAVE complex. <i>Nature</i> , 2010 , 468, 533-8	50.4	324
25	Determination of protein complex stoichiometry through multisignal sedimentation velocity experiments. <i>Analytical Biochemistry</i> , 2010 , 407, 89-103	3.1	35
24	The WAVE regulatory complex is inhibited. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 561-3	17.6	112
23	Structural mechanism of WASP activation by the enterohaemorrhagic E. coli effector EspF(U). <i>Nature</i> , 2008 , 454, 1009-13	50.4	82
22	Hierarchical regulation of WASP/WAVE proteins. <i>Molecular Cell</i> , 2008 , 32, 426-38	17.6	159
21	Development of a Chemical- and Photo-Switchable Wiskott-Aldrich Syndrome Protein. <i>FASEB Journal</i> , 2007 , 21, A994	0.9	
20	Lit-structure in the dark: conformational dynamics of phototropin LOV2 domain by relaxation NMR. <i>FASEB Journal</i> , 2007 , 21, A270	0.9	
19	Protein-tyrosine kinase and GTPase signals cooperate to phosphorylate and activate Wiskott-Aldrich syndrome protein (WASP)/neuronal WASP. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3513-20	5.4	70
18	A two-state allosteric model for autoinhibition rationalizes WASP signal integration and targeting. <i>Journal of Molecular Biology</i> , 2004 , 338, 271-85	6.5	49
17	Contingent phosphorylation/dephosphorylation provides a mechanism of molecular memory in WASP. <i>Molecular Cell</i> , 2003 , 11, 1215-27	17.6	148
16	Uncoupling Kapbeta2 substrate dissociation and ran binding. <i>Biochemistry</i> , 2002 , 41, 6955-66	3.2	46
15	Constitutively activating mutation in WASP causes X-linked severe congenital neutropenia. <i>Nature Genetics</i> , 2001 , 27, 313-7	36.3	355
14	Wasp recruitment to the T cell:APC contact site occurs independently of Cdc42 activation. <i>Immunity</i> , 2001 , 15, 249-59	32.3	136
13	Structural biology. Flipping a switch. <i>Science</i> , 2001 , 291, 2329-30	33.3	11
12	Autoinhibition and activation mechanisms of the Wiskott-Aldrich syndrome protein. <i>Nature</i> , 2000 , 404, 151-8	50.4	616
11	Detection of very weak side chain-main chain hydrogen bonding interactions in medium-size ¹³ C/ ¹⁵ N-labeled proteins by sensitivity-enhanced NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2000 , 17, 79-82	3	13

10	NMR detection of side chain-side chain hydrogen bonding interactions in ¹³ C/ ¹⁵ N-labeled proteins. <i>Journal of Biomolecular NMR</i> , 2000 , 17, 305-10	3	17
9	Mechanistic Studies of Affinity Modulation. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11979-11982	6	6
8	Structure of Cdc42 in complex with the GTPase-binding domain of the Wiskott-Aldrich syndrome protein. <i>Nature</i> , 1999 , 399, 379-83	50.4	289
7	Structure and mutagenesis of the Dbl homology domain. <i>Nature Structural Biology</i> , 1998 , 5, 1098-107		116
6	Selective methyl group protonation of perdeuterated proteins. <i>Journal of Molecular Biology</i> , 1996 , 263, 627-36	6.5	272
5	Phase Separation Can Increase Enzyme Activity by Concentration and Molecular Organization		7
4	The role of sigma-1 receptor in organization of endoplasmic reticulum signaling microdomains		1
3	A quantitative inventory of yeast P body proteins reveals principles of composition and specificity		6
2	Phosphorylation of Nephrin induces phase separated domains that move through actomyosin contraction		2
1	Beth Levine M.D. Prize in Autophagy Research. <i>Autophagy</i> , 1-1		10.2