

Michael K Rosen

List of Publications by Year in descending order

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76
papers

19,573
citations

47006

47
h-index

76900

74
g-index

98
all docs

98
docs citations

98
times ranked

15055
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic phase separation of two pathways promotes integrin clustering and nascent adhesion formation. <i>ELife</i> , 2022, 11, .	6.0	44
2	Poly-glutamine-dependent self-association as a potential mechanism for regulation of androgen receptor activity. <i>PLoS ONE</i> , 2022, 17, e0258876.	2.5	7
3	Bound nucleotide can control the dynamic architecture of monomeric actin. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 320-328.	8.2	5
4	A framework for understanding the functions of biomolecular condensates across scales. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 215-235.	37.0	450
5	Structure-Function Properties in Disordered Condensates. <i>Journal of Physical Chemistry B</i> , 2021, 125, 467-476.	2.6	34
6	Inhibition of CRISPR-Cas12a DNA targeting by nucleosomes and chromatin. <i>Science Advances</i> , 2021, 7, .	10.3	30
7	Mechanistic dissection of increased enzymatic rate in a phase-separated compartment. <i>Nature Chemical Biology</i> , 2021, 17, 693-702.	8.0	149
8	The role of sigma 1 receptor in organization of endoplasmic reticulum signaling microdomains. <i>ELife</i> , 2021, 10, .	6.0	40
9	Beth Levine M.D. Prize in Autophagy Research. <i>Autophagy</i> , 2021, 17, 2053-2053.	9.1	0
10	Using quantitative reconstitution to investigate multi-component condensates. <i>Rna</i> , 2021, , rna.079008.121.	3.5	16
11	Karyopherins and condensates. <i>Current Opinion in Cell Biology</i> , 2020, 64, 112-123.	5.4	42
12	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.	10.3	70
13	A quantitative inventory of yeast P body proteins reveals principles of composition and specificity. <i>ELife</i> , 2020, 9, .	6.0	90
14	Phosphorylation of nephrin induces phase separated domains that move through actomyosin contraction. <i>Molecular Biology of the Cell</i> , 2019, 30, 2996-3012.	2.1	30
15	Organization of Chromatin by Intrinsic and Regulated Phase Separation. <i>Cell</i> , 2019, 179, 470-484.e21.	28.9	707
16	Improved strategy for isoleucine 1H/13C methyl labeling in <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , 2019, 73, 687-697.	2.8	10
17	Stoichiometry controls activity of phase-separated clusters of actin signaling proteins. <i>Science</i> , 2019, 363, 1093-1097.	12.6	360
18	Regulation of Transmembrane Signaling by Phase Separation. <i>Annual Review of Biophysics</i> , 2019, 48, 465-494.	10.0	213

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19	A composition-dependent molecular clutch between T cell signaling condensates and actin. <i>ELife</i> , 2019, 8, .	6.0	86
20	Nuclear Import Receptor Inhibits Phase Separation of FUS through Binding to Multiple Sites. <i>Cell</i> , 2018, 173, 693-705.e22.	28.9	253
21	Intrinsically Disordered Regions Can Contribute Promiscuous Interactions to RNP Granule Assembly. <i>Cell Reports</i> , 2018, 22, 1401-1412.	6.4	256
22	Who's In and Who's Out? Compositional Control of Biomolecular Condensates. <i>Journal of Molecular Biology</i> , 2018, 430, 4666-4684.	4.2	255
23	Biomolecular condensates: organizers of cellular biochemistry. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 285-298.	37.0	3,771
24	Reconstitution of TCR Signaling Using Supported Lipid Bilayers. <i>Methods in Molecular Biology</i> , 2017, 1584, 65-76.	0.9	24
25	ATP controls the crowd. <i>Science</i> , 2017, 356, 701-702.	12.6	54
26	Intrinsically disordered sequences enable modulation of protein phase separation through distributed tyrosine motifs. <i>Journal of Biological Chemistry</i> , 2017, 292, 19110-19120.	3.4	288
27	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.	13.7	27
28	Rac1 GTPase activates the WAVE regulatory complex through two distinct binding sites. <i>ELife</i> , 2017, 6, .	6.0	129
29	Intrinsically disordered linkers determine the interplay between phase separation and gelation in multivalent proteins. <i>ELife</i> , 2017, 6, .	6.0	514
30	Compositional Control of Phase-Separated Cellular Bodies. <i>Cell</i> , 2016, 166, 651-663.	28.9	945
31	Sequence Determinants of Intracellular Phase Separation by Complex Coacervation of a Disordered Protein. <i>Molecular Cell</i> , 2016, 63, 72-85.	9.7	622
32	Phase separation of signaling molecules promotes T cell receptor signal transduction. <i>Science</i> , 2016, 352, 595-599.	12.6	941
33	Synthesis and Biological Evaluation of Kibdelone C and Its Simplified Derivatives. <i>Journal of the American Chemical Society</i> , 2016, 138, 10561-10570.	13.7	18
34	Structural and mechanistic insights into regulation of the retromer coat by TBC1d5. <i>Nature Communications</i> , 2016, 7, 13305.	12.8	88
35	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016, 7, 10882.	12.8	113
36	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.	5.2	54

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37	Actin is an evolutionarily-conserved damage-associated molecular pattern that signals tissue injury in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2016, 5, .	6.0	51
38	Formation and Maturation of Phase-Separated Liquid Droplets by RNA-Binding Proteins. <i>Molecular Cell</i> , 2015, 60, 208-219.	9.7	1,298
39	Methyl labeling and TROSY NMR spectroscopy of proteins expressed in the eukaryote <i>Pichia pastoris</i> . <i>Journal of Biomolecular NMR</i> , 2015, 62, 239-245.	2.8	42
40	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.	7.1	162
41	Biochemical Reconstitution of the WAVE Regulatory Complex. <i>Methods in Enzymology</i> , 2014, 540, 55-72.	1.0	20
42	Local F-actin Network Links Synapse Formation and Axon Branching. <i>Cell</i> , 2014, 156, 208-220.	28.9	128
43	The WAVE Regulatory Complex Links Diverse Receptors to the Actin Cytoskeleton. <i>Cell</i> , 2014, 156, 195-207.	28.9	260
44	Ena/VASP Proteins Cooperate with the WAVE Complex to Regulate the Actin Cytoskeleton. <i>Developmental Cell</i> , 2014, 30, 569-584.	7.0	101
45	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.	3.9	162
46	Phase transitions of multivalent proteins can promote clustering of membrane receptors. <i>ELife</i> , 2014, 3, .	6.0	463
47	The Bacterial Effector VopL Organizes Actin into Filament-like Structures. <i>Cell</i> , 2013, 155, 423-434.	28.9	43
48	Regulation of WASH-Dependent Actin Polymerization and Protein Trafficking by Ubiquitination. <i>Cell</i> , 2013, 152, 1051-1064.	28.9	201
49	Three-color single molecule imaging shows WASP detachment from Arp2/3 complex triggers actin filament branch formation. <i>ELife</i> , 2013, 2, e01008.	6.0	101
50	Purification of Native Arp2/3 Complex from Bovine Thymus. <i>Methods in Molecular Biology</i> , 2013, 1046, 231-250.	0.9	15
51	Measurement and Analysis of In Vitro Actin Polymerization. <i>Methods in Molecular Biology</i> , 2013, 1046, 273-293.	0.9	80
52	Phase transitions in the assembly of multivalent signalling proteins. <i>Nature</i> , 2012, 483, 336-340.	27.8	1,938
53	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.	7.1	180
54	Determination of protein complex stoichiometry through multisignal sedimentation velocity experiments. <i>Analytical Biochemistry</i> , 2010, 407, 89-103.	2.4	39

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55	Crystal Structure of the Formin mDia1 in Autoinhibited Conformation. <i>PLoS ONE</i> , 2010, 5, e12896.	2.5	39
56	Physical Mechanisms of Signal Integration by WASP Family Proteins. <i>Annual Review of Biochemistry</i> , 2010, 79, 707-735.	11.1	245
57	Structure and control of the actin regulatory WAVE complex. <i>Nature</i> , 2010, 468, 533-538.	27.8	424
58	The WAVE regulatory complex is inhibited. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 561-563.	8.2	135
59	Structural mechanism of WASP activation by the enterohaemorrhagic <i>E. coli</i> effector EspFU. <i>Nature</i> , 2008, 454, 1009-1013.	27.8	92
60	Hierarchical Regulation of WASP/WAVE Proteins. <i>Molecular Cell</i> , 2008, 32, 426-438.	9.7	188
61	Development of a Chemical and Photo-switchable Wiskott-Aldrich Syndrome Protein. <i>FASEB Journal</i> , 2007, 21, A994.	0.5	0
62	Light structure in the dark: conformational dynamics of phototropin LOV2 domain by relaxation NMR. <i>FASEB Journal</i> , 2007, 21, A270.	0.5	0
63	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, 3513-3520.	3.4	79
64	A Two-State Allosteric Model for Autoinhibition Rationalizes WASP Signal Integration and Targeting. <i>Journal of Molecular Biology</i> , 2004, 338, 271-285.	4.2	51
65	Contingent Phosphorylation/Dephosphorylation Provides a Mechanism of Molecular Memory in WASP. <i>Molecular Cell</i> , 2003, 11, 1215-1227.	9.7	157
66	Uncoupling Kap ^{β2} Substrate Dissociation and Ran Binding. <i>Biochemistry</i> , 2002, 41, 6955-6966.	2.5	50
67	WASP Recruitment to the T Cell: APC Contact Site Occurs Independently of Cdc42 Activation. <i>Immunity</i> , 2001, 15, 249-259.	14.3	144
68	Constitutively activating mutation in WASP causes X-linked severe congenital neutropenia. <i>Nature Genetics</i> , 2001, 27, 313-317.	21.4	401
69	STRUCTURAL BIOLOGY: Flipping a Switch. <i>Science</i> , 2001, 291, 2329-2330.	12.6	12
70	Autoinhibition and activation mechanisms of the Wiskott-Aldrich syndrome protein. <i>Nature</i> , 2000, 404, 151-158.	27.8	680
71	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.	2.8	15
72	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, 305-310.	2.8	19

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73	Mechanistic Studies of Affinity Modulation. Journal of the American Chemical Society, 2000, 122, 11979-11982.	13.7	6
74	Structure of Cdc42 in complex with the GTPase-binding domain of the \hat{c} Wiskott \hat{c} Aldrich syndrome \hat{c} ™ protein. Nature, 1999, 399, 379-383.	27.8	320
75	Structure and mutagenesis of the Dbl homology domain. Nature Structural Biology, 1998, 5, 1098-1107.	9.7	127
76	Selective Methyl Group Protonation of Perdeuterated Proteins. Journal of Molecular Biology, 1996, 263, 627-636.	4.2	292