Geeta J Narlikar

List of Publications by Year
in descending order

67 papers	8,952 citations	101543 36 h-index	114465 63 g-index
85 all docs	85 docs citations	85 times ranked	9286 citing authors

#	Article	IF	Citations
1	A hexasome is the preferred substrate for the INO80 chromatin remodeling complex, allowing versatility of function. Molecular Cell, 2022, 82, 2098-2112.e4.	9.7	11
2	ATP Hydrolysis Coordinates the Activities of Two Motors in a Dimeric Chromatin Remodeling Enzyme. Journal of Molecular Biology, 2022, 434, 167653.	4.2	3
3	Satellite repeat transcripts modulate heterochromatin condensates and safeguard chromosome stability in mouse embryonic stem cells. Nature Communications, 2022, 13, .	12.8	16
4	Enzymatic Reactions inside Biological Condensates. Journal of Molecular Biology, 2021, 433, 166624.	4.2	50
5	Collaboration through chromatin: motors of transcription and chromatin structure. Journal of Molecular Biology, 2021, 433, 166876.	4.2	11
6	HP1 proteins compact DNA into mechanically and positionally stable phase separated domains. ELife, 2021, 10, .	6.0	119
7	Generation and Biochemical Characterization of Phaseâ€Separated Droplets Formed by Nucleic Acid Binding Proteins: Using HP1 as a Model System. Current Protocols, 2021, 1, e109.	2.9	6
8	Histone dynamics play a critical role in SNF2h-mediated nucleosome sliding. Nature Structural and Molecular Biology, 2021, 28, 548-551.	8.2	3
9	Topical collection on Chromatin Biology and Epigenetics. Journal of Biosciences, 2020, 45, 1.	1.1	25
10	Phase-separation in chromatin organization. Journal of Biosciences, 2020, 45, 1.	1.1	50
11	Evolutionary Persistence of DNA Methylation for Millions of Years after Ancient Loss of a De Novo Methyltransferase. Cell, 2020, 180, 263-277.e20.	28.9	87
12	Zscan4 binds nucleosomal microsatellite DNA and protects mouse two-cell embryos from DNA damage. Science Advances, 2020, 6, eaaz9115.	10.3	39
13	Liquid-like interactions in heterochromatin: Implications for mechanism and regulation. Current Opinion in Cell Biology, 2020, 64, 90-96.	5.4	29
14	ATP Hydrolysis by the SNF2 Domain of Dnmt5 Is Coupled to Both Specific Recognition and Modification of Hemimethylated DNA. Molecular Cell, 2020, 79, 127-139.e4.	9.7	15
15	Massively multiplex single-molecule oligonucleosome footprinting. ELife, 2020, 9, .	6.0	55
16	Topical collection on Chromatin Biology and Epigenetics. Journal of Biosciences, 2020, 45, .	1.1	16
17	Phase-separation in chromatin organization. Journal of Biosciences, 2020, 45, .	1.1	12
18	Chromatin topology, condensates and gene regulation: shifting paradigms or just a phase?. Development (Cambridge), 2019, 146, .	2.5	93

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19	Biophysical Properties of HP1-Mediated Heterochromatin. Cold Spring Harbor Symposia on Quantitative Biology, 2019, 84, 217-225.	1.1	11
20	HP1 reshapes nucleosome core to promote phase separation of heterochromatin. Nature, 2019, 575, 390-394.	27.8	358
21	A Nucleosome Bridging Mechanism for Activation of a Maintenance DNA Methyltransferase. Molecular Cell, 2019, 73, 73-83.e6.	9.7	33
22	Ion counting demonstrates a high electrostatic field generated by the nucleosome. ELife, 2019, 8, .	6.0	43
23	Cryo-EM structures of remodeler-nucleosome intermediates suggest allosteric control through the nucleosome. ELife, 2019, 8, .	6.0	70
24	The Role of Phase Separation in Heterochromatin Formation, Function, and Regulation. Biochemistry, 2018, 57, 2540-2548.	2.5	144
25	The Yeast INO80 Complex Operates as a Tunable DNA Length-Sensitive Switch to Regulate Nucleosome Sliding. Molecular Cell, 2018, 69, 677-688.e9.	9.7	45
26	Visualization and Quantitation of Phase-Separated Droplet Formation by Human HP1Î±. Methods in Enzymology, 2018, 611, 51-66.	1.0	13
27	The nucleosomal acidic patch relieves auto-inhibition by the ISWI remodeler SNF2h. ELife, 2018, 7, .	6.0	55
28	Distortion of histone octamer core promotes nucleosome mobilization by a chromatin remodeler. Science, 2017, 355, .	12.6	92
29	Liquid droplet formation by HP1Î± suggests a role for phase separation in heterochromatin. Nature, 2017, 547, 236-240.	27.8	1,351
30	Regulation of Rvb1/Rvb2 by a Domain within the INO80 Chromatin Remodeling Complex Implicates the Yeast Rvbs as Protein Assembly Chaperones. Cell Reports, 2017, 19, 2033-2044.	6.4	43
31	Biochemical Basis for Distinct Roles of the Heterochromatin Proteins Swi6 and Chp2. Journal of Molecular Biology, 2017, 429, 3666-3677.	4.2	24
32	Nucleosome breathing and remodeling constrain CRISPR-Cas9 function. ELife, 2016, 5, .	6.0	193
33	Mechanisms of ATP-Dependent Chromatin Remodeling Motors. Annual Review of Biophysics, 2016, 45, 153-181.	10.0	120
34	A Nucleotide-Driven Switch Regulates Flanking DNA Length Sensing by a Dimeric Chromatin Remodeler. Molecular Cell, 2015, 57, 850-859.	9.7	58
35	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
36	Mechanisms of functional promiscuity by HP1 proteins. Trends in Cell Biology, 2014, 24, 377-386.	7.9	165

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37	The Histone H4 Tail Regulates the Conformation of the ATP-Binding Pocket in the SNF2h Chromatin Remodeling Enzyme. Journal of Molecular Biology, 2014, 426, 2034-2044.	4.2	30
38	Mechanisms and Functions of ATP-Dependent Chromatin-Remodeling Enzymes. Cell, 2013, 154, 490-503.	28.9	522
39	Division of Labor between the Chromodomains of HP1 and Suv39 Methylase Enables Coordination of Heterochromatin Spread. Molecular Cell, 2013, 51, 80-91.	9.7	125
40	A conformational switch in HP1 releases auto-inhibition to drive heterochromatin assembly. Nature, 2013, 496, 377-381.	27.8	141
41	Mechanistic Analysis of HP1 heterochromatin assembly. FASEB Journal, 2013, 27, 456.3.	0.5	0
42	Analysis of Changes in Nucleosome Conformation Using Fluorescence Resonance Energy Transfer. Methods in Molecular Biology, 2012, 833, 337-349.	0.9	13
43	Chromodomain-Mediated Oligomerization of HP1 Suggests a Nucleosome-Bridging Mechanism for Heterochromatin Assembly. Molecular Cell, 2011, 41, 67-81.	9.7	262
44	Structural Basis of Silencing: Sir3 BAH Domain in Complex with a Nucleosome at 3.0 Å… Resolution. Science, 2011, 334, 977-982.	12.6	241
45	A proposal for kinetic proof reading by ISWI family chromatin remodeling motors. Current Opinion in Chemical Biology, 2010, 14, 660-665.	6.1	43
46	The ATP-Dependent Remodeler RSC Transfers Histone Dimers and Octamers through the Rapid Formation of an Unstable Encounter Intermediate. Biochemistry, 2010, 49, 9882-9890.	2.5	26
47	The chromatin remodeller ACF acts as a dimeric motor to space nucleosomes. Nature, 2009, 462, 1016-1021.	27.8	160
48	Dynamics of nucleosome remodelling by individual ACF complexes. Nature, 2009, 462, 1022-1027.	27.8	184
49	Chromatin Remodelers Act Globally, Sequence Positions Nucleosomes Locally. Journal of Molecular Biology, 2009, 391, 12-25.	4.2	48
50	Mechanisms of ATPâ€dependent Chromatin Remodeling Enzymes. FASEB Journal, 2009, 23, 325.2.	0.5	0
51	ATP-dependent chromatin remodeling enzymes: two heads are not better, just different. Current Opinion in Genetics and Development, 2008, 18, 137-144.	3.3	81
52	FRET-based methods to study ATP-dependent changes in chromatin structure. Methods, 2007, 41, 291-295.	3.8	23
53	The Site-Specific Installation of Methyl-Lysine Analogs into Recombinant Histones. Cell, 2007, 128, 1003-1012.	28.9	446
54	Mechanism of the ATPâ€dependent chromatin remodeling complex ACF. FASEB Journal, 2007, 21, A39.	0.5	0

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55	The chromatin-remodeling enzyme ACF is an ATP-dependent DNA length sensor that regulates nucleosome spacing. Nature Structural and Molecular Biology, 2006, 13, 1078-1083.	8.2	185
56	Human ACF1 Alters the Remodeling Strategy of SNF2h. Journal of Biological Chemistry, 2006, 281, 28636-28647.	3.4	55
57	Distinct Strategies to Make Nucleosomal DNA Accessible. Molecular Cell, 2003, 11, 1311-1322.	9.7	149
58	Nucleosome Remodeling by the Human SWI/SNF Complex Requires Transient Global Disruption of Histone-DNA Interactions. Molecular and Cellular Biology, 2002, 22, 3653-3662.	2.3	44
59	Cooperation between Complexes that Regulate Chromatin Structure and Transcription. Cell, 2002, 108, 475-487.	28.9	1,370
60	Generation and Interconversion of Multiple Distinct Nucleosomal States as a Mechanism for Catalyzing Chromatin Fluidity. Molecular Cell, 2001, 8, 1219-1230.	9.7	122
61	Assembly of Nucleosomal Templates by Salt Dialysis. , 2001, Chapter 21, Unit 21.6.		33
62	Rvb1p and Rvb2p Are Essential Components of a Chromatin Remodeling Complex That Regulates Transcription of over 5% of Yeast Genes. Journal of Biological Chemistry, 2001, 276, 16279-16288.	3.4	103
63	Functional Differences between the Human ATP-dependent Nucleosome Remodeling Proteins BRG1 and SNF2H. Journal of Biological Chemistry, 2001, 276, 34270-34278.	3.4	76
64	Stability of a Human SWI-SNF Remodeled Nucleosomal Array. Molecular and Cellular Biology, 2001, 21, 1132-1144.	2.3	36
65	Reconstitution of a Core Chromatin Remodeling Complex from SWI/SNF Subunits. Molecular Cell, 1999, 3, 247-253.	9.7	557
66	Stable Remodeling of Tailless Nucleosomes by the Human SWI-SNF Complex. Molecular and Cellular Biology, 1999, 19, 2088-2097.	2.3	61
67	MECHANISTIC ASPECTS OF ENZYMATIC CATALYSIS:Lessons from Comparison of RNA and Protein Enzymes. Annual Review of Biochemistry, 1997, 66, 19-59.	11.1	262