Sungchul Hohng

List of Publications by Year
in descending order

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65	6,036	136950	106344
papers	citations	32 h-index	65 g-index

73	73	73	7393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rho-dependent transcription termination proceeds via three routes. Nature Communications, 2022, 13, 1663.	12.8	13
2	Single-molecule Fluorescence Technique to Monitor the Co-transcriptional Formation of G-quadruplex and R-loop Structures. Bio-protocol, 2021, 11, e4069.	0.4	0
3	Hopping and Flipping of RNA Polymerase on DNA during Recycling for Reinitiation after Intrinsic Termination in Bacterial Transcription. International Journal of Molecular Sciences, 2021, 22, 2398.	4.1	6
4	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. ELife, 2021, 10, .	6.0	152
5	A Novel N-terminal Region to Chromodomain in CHD7 is Required for the Efficient Remodeling Activity. Journal of Molecular Biology, 2021, 433, 167114.	4.2	4
6	Yeast Chd1p Unwraps the Exit Side DNA upon ATP Binding to Facilitate the Nucleosome Translocation Occurring upon ATP Hydrolysis. Biochemistry, 2020, 59, 4481-4487.	2.5	2
7	Single-molecule fluorescence studies on cotranscriptional G-quadruplex formation coupled with R-loop formation. Nucleic Acids Research, 2020, 48, 9195-9203.	14.5	31
8	Quantification of purified endogenous miRNAs with high sensitivity and specificity. Nature Communications, 2020, 11, 6033.	12.8	55
9	Transcription reinitiation by recycling RNA polymerase that diffuses on DNA after releasing terminated RNA. Nature Communications, 2020, 11, 450.	12.8	25
10	Single-Molecule FRET Assay for Studying Cotranscriptional RNA Folding. Methods in Molecular Biology, 2020, 2106, 271-282.	0.9	2
11	Structural basis of recognition and destabilization of the histone H2B ubiquitinated nucleosome by the DOT1L histone H3 Lys79 methyltransferase. Genes and Development, 2019, 33, 620-625.	5.9	73
12	ATAD5 promotes replication restart by regulating RAD51 and PCNA in response to replication stress. Nature Communications, 2019, 10, 5718.	12.8	35
13	Multiple RPAs make WRN syndrome protein a superhelicase. Nucleic Acids Research, 2018, 46, 4689-4698.	14.5	28
14	Realâ€Time Monitoring of the Binding/Dissociation and Redox States of a Single Transition Metal Ions. Bulletin of the Korean Chemical Society, 2018, 39, 638-642.	1.9	1
15	Single-molecule FRET studies on the cotranscriptional folding of a thiamine pyrophosphate riboswitch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 331-336.	7.1	49
16	Mechanisms of the Binding/Dissociation Acceleration of the Targetâ€“Guide Interaction by Thermus thermophilus Argonaute. Bulletin of the Korean Chemical Society, 2018, 39, 167-173.	1.9	5
17	Superresolution fluorescence microscopy for 3D reconstruction of thick samples. Molecular Brain, 2018, 11, 17.	2.6	13
18	Accelerated FRET-PAINT microscopy. Molecular Brain, 2018, 11, 70.	2.6	25

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19	ATP Binding to Rad5 Initiates Replication Fork Reversal by Inducing the Unwinding of the Leading Arm and the Formation of the Holliday Junction. Cell Reports, 2018, 23, 1831-1839.	6.4	30
20	AUF1 facilitates microRNA-mediated gene silencing. Nucleic Acids Research, 2017, 45, 6064-6073.	14.5	40
21	NAP1L1 accelerates activation and decreases pausing to enhance nucleosome remodeling by CSB. Nucleic Acids Research, 2017, 45, 4696-4707.	14.5	25
22	Single-Molecule Fluorescence Energy Transfer Assays for the Characterization of Reaction Pathways of miRNA-Argonaute Complex. Methods in Molecular Biology, 2017, 1517, 305-315.	0.9	1
23	Morphological analysis of oligomeric vs. fibrillar forms of Î±-synuclein aggregates with super-resolution BALM imaging. Chemical Physics Letters, 2017, 690, 62-67.	2.6	5
24	Ligand Recognition Mechanism of Thiamine Pyrophosphate Riboswitch Aptamer. Bulletin of the Korean Chemical Society, 2017, 38, 1465-1473.	1.9	3
25	Extended depth of field for single biomolecule optical imaging-force spectroscopy. Optics Express, 2017, 25, 32189.	3.4	7
26	Accelerated super-resolution imaging with FRET-PAINT. Molecular Brain, 2017, 10, 63.	2.6	44
27	Increased PKMÎ¶ activity impedes lateral movement of GluA2-containing AMPA receptors. Molecular Brain, 2017, 10, 56.	2.6	15
28	Singleâ€Molecule FRET Combined with Magnetic Tweezers at Low Force Regime. Bulletin of the Korean Chemical Society, 2016, 37, 408-410.	1.9	2
29	Active Control of Repetitive Structural Transitions between Replication Forks and Holliday Junctions by Werner Syndrome Helicase. Structure, 2016, 24, 1292-1300.	3.3	10
30	Structure of Human DROSHA. Cell, 2016, 164, 81-90.	28.9	187
31	Functional Anatomy of the Human Microprocessor. Cell, 2015, 161, 1374-1387.	28.9	315
32	Human Argonaute 2 Has Diverse Reaction Pathways on Target RNAs. Molecular Cell, 2015, 59, 117-124.	9.7	166
33	AUF1 promotes let-7b loading on Argonaute 2. Genes and Development, 2015, 29, 1599-1604.	5.9	41
34	Single-molecule fluorescence measurements reveal the reaction mechanisms of the core-RISC, composed of human Argonaute 2 and a guide RNA. BMB Reports, 2015, 48, 643-644.	2.4	7
35	Dicer Nucleaseâ€Promoted Production of Let7aâ€1 MicroRNA Is Enhanced in the Presence of Tryptophanâ€Containing Amphiphilic Peptides. ChemBioChem, 2014, 15, 1651-1659.	2.6	5
36	Maximizing information content of single-molecule FRET experiments: multi-color FRET and FRET combined with force or torque. Chemical Society Reviews, 2014, 43, 1007-1013.	38.1	81

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37	Protein conformational dynamics dictate the binding affinity for a ligand. Nature Communications, 2014, 5, 3724.	12.8	113
38	Distinct Z-DNA binding mode of a PKR-like protein kinase containing a Z-DNA binding domain (PKZ). Nucleic Acids Research, 2014, 42, 5937-5948.	14.5	46
39	Subâ€Diffraction Limit Imaging of Inorganic Nanowire Networks Interfacing Cells. Small, 2014, 10, 462-468.	10.0	2
40	Z-DNA stabilization is dominated by the Hofmeister effect. Physical Chemistry Chemical Physics, 2013, 15, 15829.	2.8	13
41	An Optical Trap Combined with Three-Color FRET. Journal of the American Chemical Society, 2013, 135, 18260-18263.	13.7	30
42	Dynamic Anchoring of the 3â€²-End of the Guide Strand Controls the Target Dissociation of Argonauteâ€“Guide Complex. Journal of the American Chemical Society, 2013, 135, 16865-16871.	13.7	47
43	Energetics of Z-DNA Binding Protein-Mediated Helicity Reversals in DNA, RNA, and DNAâ€“RNA Duplexes. Journal of Physical Chemistry B, 2013, 117, 13866-13871.	2.6	11
44	Werner Syndrome Protein Forms a Bidirectional Fork Regression Motor Whose Direction is Switched at DNA Modifications. Biophysical Journal, 2013, 104, 74a.	0.5	0
45	A single-molecule dissection of ligand binding to a protein with intrinsic dynamics. Nature Chemical Biology, 2013, 9, 313-318.	8.0	105
46	Structure-based elucidation of the regulatory mechanism for aminopeptidase activity. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1738-1747.	2.5	4
47	DNA cleavage and opening reactions of human topoisomerase IIÎ± are regulated via Mg ²⁺ -mediated dynamic bending of gate-DNA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2925-2930.	7.1	56
48	Autofocusing system based on optical astigmatism analysis of single-molecule images. Optics Express, 2012, 20, 29353.	3.4	15
49	Kinetic mechanism for viral dsRNA length discrimination by MDA5 filaments. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3340-9.	7.1	118
50	Video-Rate Confocal Microscopy for Single-Molecule Imaging in Live Cells and Superresolution Fluorescence Imaging. Biophysical Journal, 2012, 103, 1691-1697.	0.5	38
51	Hidden complexity in the isomerization dynamics of Holliday junctions. Nature Chemistry, 2012, 4, 907-914.	13.6	85
52	Intrinsic Z-DNA Is Stabilized by the Conformational Selection Mechanism of Z-DNA-Binding Proteins. Journal of the American Chemical Society, 2011, 133, 668-671.	13.7	92
53	Dynamic competition of DsrA and rpoS fragments for the proximal binding site of Hfq as a means for efficient annealing. Nucleic Acids Research, 2011, 39, 5131-5139.	14.5	58
54	Singleâ€molecule approach to immunoprecipitated protein complexes: insights into miRNA uridylation. EMBO Reports, 2011, 12, 690-696.	4.5	70

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55	Singleâ€Molecule Fourâ€Color FRET. Angewandte Chemie - International Edition, 2010, 49, 9922-9925.	13.8	148
56	Single-Molecule Three-Color FRET with Both Negligible Spectral Overlap and Long Observation Time. PLoS ONE, 2010, 5, e12270.	2.5	95
57	A practical guide to single-molecule FRET. Nature Methods, 2008, 5, 507-516.	19.0	1,857
58	Spectroscopic observation of RNA chaperone activities of Hfq in post-transcriptional regulation by a small non-coding RNA. Nucleic Acids Research, 2007, 35, 999-1006.	14.5	86
59	Fluorescence-Force Spectroscopy Maps Two-Dimensional Reaction Landscape of the Holliday Junction. Science, 2007, 318, 279-283.	12.6	270
60	Single-Molecule Quantum-Dot Fluorescence Resonance Energy Transfer. ChemPhysChem, 2005, 6, 956-960.	2.1	155
61	Single-Molecule FRET. , 2005, , 165-179.		0
62	Observation of internal cleavage and ligation reactions of a ribozyme. Nature Structural and Molecular Biology, 2004, 11, 1107-1113.	8.2	104
63	Single-Molecule Three-Color FRET. Biophysical Journal, 2004, 87, 1328-1337.	0.5	320
64	Near-Complete Suppression of Quantum Dot Blinking in Ambient Conditions. Journal of the American Chemical Society, 2004, 126, 1324-1325.	13.7	485
65	Conformational Flexibility of Four-way Junctions in RNA. Journal of Molecular Biology, 2004, 336, 69-79.	4.2	86