

# Sungchul Hohng

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

6,036  
citations

136950

32  
h-index

106344

65  
g-index

73  
all docs

73  
docs citations

73  
times ranked

7393  
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical guide to single-molecule FRET. <i>Nature Methods</i> , 2008, 5, 507-516.	19.0	1,857
2	Near-Complete Suppression of Quantum Dot Blinking in Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2004, 126, 1324-1325.	13.7	485
3	Single-Molecule Three-Color FRET. <i>Biophysical Journal</i> , 2004, 87, 1328-1337.	0.5	320
4	Functional Anatomy of the Human Microprocessor. <i>Cell</i> , 2015, 161, 1374-1387.	28.9	315
5	Fluorescence-Force Spectroscopy Maps Two-Dimensional Reaction Landscape of the Holliday Junction. <i>Science</i> , 2007, 318, 279-283.	12.6	270
6	Structure of Human DRISHA. <i>Cell</i> , 2016, 164, 81-90.	28.9	187
7	Human Argonaute 2 Has Diverse Reaction Pathways on Target RNAs. <i>Molecular Cell</i> , 2015, 59, 117-124.	9.7	166
8	Single-Molecule Quantum-Dot Fluorescence Resonance Energy Transfer. <i>ChemPhysChem</i> , 2005, 6, 956-960.	2.1	155
9	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	6.0	152
10	Single-Molecule Four-Color FRET. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9922-9925.	13.8	148
11	Kinetic mechanism for viral dsRNA length discrimination by MDA5 filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3340-9.	7.1	118
12	Protein conformational dynamics dictate the binding affinity for a ligand. <i>Nature Communications</i> , 2014, 5, 3724.	12.8	113
13	A single-molecule dissection of ligand binding to a protein with intrinsic dynamics. <i>Nature Chemical Biology</i> , 2013, 9, 313-318.	8.0	105
14	Observation of internal cleavage and ligation reactions of a ribozyme. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1107-1113.	8.2	104
15	Single-Molecule Three-Color FRET with Both Negligible Spectral Overlap and Long Observation Time. <i>PLoS ONE</i> , 2010, 5, e12270.	2.5	95
16	Intrinsic Z-DNA Is Stabilized by the Conformational Selection Mechanism of Z-DNA-Binding Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 668-671.	13.7	92
17	Conformational Flexibility of Four-way Junctions in RNA. <i>Journal of Molecular Biology</i> , 2004, 336, 69-79.	4.2	86
18	Spectroscopic observation of RNA chaperone activities of Hfq in post-transcriptional regulation by a small non-coding RNA. <i>Nucleic Acids Research</i> , 2007, 35, 999-1006.	14.5	86

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19	Hidden complexity in the isomerization dynamics of Holliday junctions. <i>Nature Chemistry</i> , 2012, 4, 907-914.	13.6	85
20	Maximizing information content of single-molecule FRET experiments: multi-color FRET and FRET combined with force or torque. <i>Chemical Society Reviews</i> , 2014, 43, 1007-1013.	38.1	81
21	Structural basis of recognition and destabilization of the histone H2B ubiquitinated nucleosome by the DOT1L histone H3 Lys79 methyltransferase. <i>Genes and Development</i> , 2019, 33, 620-625.	5.9	73
22	Single-molecule approach to immunoprecipitated protein complexes: insights into miRNA uridylation. <i>EMBO Reports</i> , 2011, 12, 690-696.	4.5	70
23	Dynamic competition of DsrA and rpoS fragments for the proximal binding site of Hfq as a means for efficient annealing. <i>Nucleic Acids Research</i> , 2011, 39, 5131-5139.	14.5	58
24	DNA cleavage and opening reactions of human topoisomerase III $\pm$ are regulated <i>via</i> Mg <sup>2+</sup> -mediated dynamic bending of gate-DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2925-2930.	7.1	56
25	Quantification of purified endogenous miRNAs with high sensitivity and specificity. <i>Nature Communications</i> , 2020, 11, 6033.	12.8	55
26	Single-molecule FRET studies on the cotranscriptional folding of a thiamine pyrophosphate riboswitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 331-336.	7.1	49
27	Dynamic Anchoring of the 3'-End of the Guide Strand Controls the Target Dissociation of Argonaute-Guide Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 16865-16871.	13.7	47
28	Distinct Z-DNA binding mode of a PKR-like protein kinase containing a Z-DNA binding domain (PKZ). <i>Nucleic Acids Research</i> , 2014, 42, 5937-5948.	14.5	46
29	Accelerated super-resolution imaging with FRET-PAINT. <i>Molecular Brain</i> , 2017, 10, 63.	2.6	44
30	AUF1 promotes let-7b loading on Argonaute 2. <i>Genes and Development</i> , 2015, 29, 1599-1604.	5.9	41
31	AUF1 facilitates microRNA-mediated gene silencing. <i>Nucleic Acids Research</i> , 2017, 45, 6064-6073.	14.5	40
32	Video-Rate Confocal Microscopy for Single-Molecule Imaging in Live Cells and Superresolution Fluorescence Imaging. <i>Biophysical Journal</i> , 2012, 103, 1691-1697.	0.5	38
33	ATAD5 promotes replication restart by regulating RAD51 and PCNA in response to replication stress. <i>Nature Communications</i> , 2019, 10, 5718.	12.8	35
34	Single-molecule fluorescence studies on cotranscriptional G-quadruplex formation coupled with R-loop formation. <i>Nucleic Acids Research</i> , 2020, 48, 9195-9203.	14.5	31
35	An Optical Trap Combined with Three-Color FRET. <i>Journal of the American Chemical Society</i> , 2013, 135, 18260-18263.	13.7	30
36	ATP Binding to Rad5 Initiates Replication Fork Reversal by Inducing the Unwinding of the Leading Arm and the Formation of the Holliday Junction. <i>Cell Reports</i> , 2018, 23, 1831-1839.	6.4	30

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37	Multiple RPAs make WRN syndrome protein a superhelicase. <i>Nucleic Acids Research</i> , 2018, 46, 4689-4698.	14.5	28
38	NAP1L1 accelerates activation and decreases pausing to enhance nucleosome remodeling by CSB. <i>Nucleic Acids Research</i> , 2017, 45, 4696-4707.	14.5	25
39	Accelerated FRET-PAINT microscopy. <i>Molecular Brain</i> , 2018, 11, 70.	2.6	25
40	Transcription reinitiation by recycling RNA polymerase that diffuses on DNA after releasing terminated RNA. <i>Nature Communications</i> , 2020, 11, 450.	12.8	25
41	Autofocusing system based on optical astigmatism analysis of single-molecule images. <i>Optics Express</i> , 2012, 20, 29353.	3.4	15
42	Increased PKMÎ¶ activity impedes lateral movement of GluA2-containing AMPA receptors. <i>Molecular Brain</i> , 2017, 10, 56.	2.6	15
43	Z-DNA stabilization is dominated by the Hofmeister effect. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15829.	2.8	13
44	Superresolution fluorescence microscopy for 3D reconstruction of thick samples. <i>Molecular Brain</i> , 2018, 11, 17.	2.6	13
45	Rho-dependent transcription termination proceeds via three routes. <i>Nature Communications</i> , 2022, 13, 1663.	12.8	13
46	Energetics of Z-DNA Binding Protein-Mediated Helicity Reversals in DNA, RNA, and DNA-RNA Duplexes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13866-13871.	2.6	11
47	Active Control of Repetitive Structural Transitions between Replication Forks and Holliday Junctions by Werner Syndrome Helicase. <i>Structure</i> , 2016, 24, 1292-1300.	3.3	10
48	Extended depth of field for single biomolecule optical imaging-force spectroscopy. <i>Optics Express</i> , 2017, 25, 32189.	3.4	7
49	Single-molecule fluorescence measurements reveal the reaction mechanisms of the core-RISC, composed of human Argonaute 2 and a guide RNA. <i>BMB Reports</i> , 2015, 48, 643-644.	2.4	7
50	Hopping and Flipping of RNA Polymerase on DNA during Recycling for Reinitiation after Intrinsic Termination in Bacterial Transcription. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2398.	4.1	6
51	Dicer Nuclease-Promoted Production of Let7a-1 MicroRNA Is Enhanced in the Presence of Tryptophan-Containing Amphiphilic Peptides. <i>ChemBioChem</i> , 2014, 15, 1651-1659.	2.6	5
52	Morphological analysis of oligomeric vs. fibrillar forms of Î±-synuclein aggregates with super-resolution BALM imaging. <i>Chemical Physics Letters</i> , 2017, 690, 62-67.	2.6	5
53	Mechanisms of the Binding/Dissociation Acceleration of the Target-Guide Interaction by <i>Thermus thermophilus</i> Argonaute. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 167-173.	1.9	5
54	Structure-based elucidation of the regulatory mechanism for aminopeptidase activity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1738-1747.	2.5	4

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55	A Novel N-terminal Region to Chromodomain in CHD7 is Required for the Efficient Remodeling Activity. <i>Journal of Molecular Biology</i> , 2021, 433, 167114.	4.2	4
56	Ligand Recognition Mechanism of Thiamine Pyrophosphate Riboswitch Aptamer. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 1465-1473.	1.9	3
57	Sub-Å Diffraction Limit Imaging of Inorganic Nanowire Networks Interfacing Cells. <i>Small</i> , 2014, 10, 462-468.	10.0	2
58	Single-Molecule FRET Combined with Magnetic Tweezers at Low Force Regime. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 408-410.	1.9	2
59	Yeast Chd1p Unwraps the Exit Side DNA upon ATP Binding to Facilitate the Nucleosome Translocation Occurring upon ATP Hydrolysis. <i>Biochemistry</i> , 2020, 59, 4481-4487.	2.5	2
60	Single-Molecule FRET Assay for Studying Cotranscriptional RNA Folding. <i>Methods in Molecular Biology</i> , 2020, 2106, 271-282.	0.9	2
61	Single-Molecule Fluorescence Energy Transfer Assays for the Characterization of Reaction Pathways of miRNA-Argonaute Complex. <i>Methods in Molecular Biology</i> , 2017, 1517, 305-315.	0.9	1
62	Real-Time Monitoring of the Binding/Dissociation and Redox States of a Single Transition Metal Ions. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 638-642.	1.9	1
63	Werner Syndrome Protein Forms a Bidirectional Fork Regression Motor Whose Direction is Switched at DNA Modifications. <i>Biophysical Journal</i> , 2013, 104, 74a.	0.5	0
64	Single-molecule Fluorescence Technique to Monitor the Co-transcriptional Formation of G-quadruplex and R-loop Structures. <i>Bio-protocol</i> , 2021, 11, e4069.	0.4	0
65	Single-Molecule FRET. , 2005, , 165-179.		0