

# Sua Myong

## List of Publications by Year in descending order

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84  
papers

7,056  
citations

76294

40  
h-index

71651

76  
g-index

89  
all docs

89  
docs citations

89  
times ranked

7966  
citing authors

#	ARTICLE	IF	CITATIONS
1	The disordered P granule protein LAF-1 drives phase separation into droplets with tunable viscosity and dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7189-7194.	3.3	986
2	The transcription factor GABP selectively binds and activates the mutant TERT promoter in cancer. <i>Science</i> , 2015, 348, 1036-1039.	6.0	451
3	mRNA structure determines specificity of a polyQ-driven phase separation. <i>Science</i> , 2018, 360, 922-927.	6.0	421
4	Cytosolic Viral Sensor RIG-I Is a 5'-Triphosphate-Dependent Translocase on Double-Stranded RNA. <i>Science</i> , 2009, 323, 1070-1074.	6.0	325
5	Real-Time Observation of RecA Filament Dynamics with Single Monomer Resolution. <i>Cell</i> , 2006, 126, 515-527.	13.5	285
6	Spring-Loaded Mechanism of DNA Unwinding by Hepatitis C Virus NS3 Helicase. <i>Science</i> , 2007, 317, 513-516.	6.0	281
7	Repetitive shuttling of a motor protein on DNA. <i>Nature</i> , 2005, 437, 1321-1325.	13.7	254
8	Protein induced fluorescence enhancement as a single molecule assay with short distance sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7414-7418.	3.3	224
9	Structural basis of G-quadruplex unfolding by the DEAH/RHA helicase DHX36. <i>Nature</i> , 2018, 558, 465-469.	13.7	224
10	Roles of RIG-I N-terminal tandem CARD and splice variant in TRIM25-mediated antiviral signal transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16743-16748.	3.3	219
11	Protein induced fluorescence enhancement (PIFE) for probing protein-nucleic acid interactions. <i>Chemical Society Reviews</i> , 2014, 43, 1221-1229.	18.7	195
12	TDP-43 represses cryptic exon inclusion in the FTD-ALS gene UNC13A. <i>Nature</i> , 2022, 603, 124-130.	13.7	193
13	DNA-binding Orientation and Domain Conformation of the E.coli Rep Helicase Monomer Bound to a Partial Duplex Junction: Single-molecule Studies of Fluorescently Labeled Enzymes. <i>Journal of Molecular Biology</i> , 2004, 336, 395-408.	2.0	159
14	PcrA Helicase Dismantles RecA Filaments by Reeling in DNA in Uniform Steps. <i>Cell</i> , 2010, 142, 544-555.	13.5	156
15	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	2.8	152
16	G-quadruplex conformation and dynamics are determined by loop length and sequence. <i>Nucleic Acids Research</i> , 2014, 42, 8106-8114.	6.5	142
17	Oxidative guanine base damage regulates human telomerase activity. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 1092-1100.	3.6	134
18	Loss of Dynamic RNA Interaction and Aberrant Phase Separation Induced by Two Distinct Types of ALS/FTD-Linked FUS Mutations. <i>Molecular Cell</i> , 2020, 77, 82-94.e4.	4.5	119

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19	POT1-TPP1 Regulates Telomeric Overhang Structural Dynamics. <i>Structure</i> , 2012, 20, 1872-1880.	1.6	115
20	RNA Droplets. <i>Annual Review of Biophysics</i> , 2020, 49, 247-265.	4.5	102
21	Ubiquilin 2 modulates ALS/FTD-linked FUS-RNA complex dynamics and stress granule formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11485-E11494.	3.3	100
22	Srs2 prevents Rad51 filament formation by repetitive motion on DNA. <i>Nature Communications</i> , 2013, 4, 2281.	5.8	86
23	Single-molecule imaging reveals a common mechanism shared by G-quadruplex-resolving helicases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8448-8453.	3.3	85
24	FUS Regulates Activity of MicroRNA-Mediated Gene Silencing. <i>Molecular Cell</i> , 2018, 69, 787-801.e8.	4.5	76
25	ATP Hydrolysis Enhances RNA Recognition and Antiviral Signal Transduction by the Innate Immune Sensor, Laboratory of Genetics and Physiology 2 (LGP2). <i>Journal of Biological Chemistry</i> , 2013, 288, 938-946.	1.6	74
26	G-quadruplex formation in double strand DNA probed by NMM and CV fluorescence. <i>Nucleic Acids Research</i> , 2015, 43, 7961-7970.	6.5	74
27	Nanopore-Based Assay for Detection of Methylation in Double-Stranded DNA Fragments. <i>ACS Nano</i> , 2015, 9, 290-300.	7.3	73
28	R-loop induced G-quadruplex in non-template promotes transcription by successive R-loop formation. <i>Nature Communications</i> , 2020, 11, 3392.	5.8	71
29	RNA promotes phase separation of glycolysis enzymes into yeast G bodies in hypoxia. <i>ELife</i> , 2020, 9, .	2.8	70
30	ATP-independent diffusion of double-stranded RNA binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 151-156.	3.3	62
31	Telomeric Overhang Length Determines Structural Dynamics and Accessibility to Telomerase and ALT-Associated Proteins. <i>Structure</i> , 2014, 22, 842-853.	1.6	62
32	ALS/FTLD-Linked Mutations in FUS Glycine Residues Cause Accelerated Gelation and Reduced Interactions with Wild-Type FUS. <i>Molecular Cell</i> , 2020, 80, 666-681.e8.	4.5	62
33	Molecular mechanisms by which oxidative DNA damage promotes telomerase activity. <i>Nucleic Acids Research</i> , 2017, 45, 11752-11765.	6.5	58
34	Rotations of the 2B Sub-domain of E. coli UvrD Helicase/Translocase Coupled to Nucleotide and DNA Binding. <i>Journal of Molecular Biology</i> , 2011, 411, 633-648.	2.0	57
35	RNA G-quadruplex is resolved by repetitive and ATP-dependent mechanism of DHX36. <i>Nature Communications</i> , 2019, 10, 1855.	5.8	56
36	Bridging Conformational Dynamics and Function Using Single-Molecule Spectroscopy. <i>Structure</i> , 2006, 14, 633-643.	1.6	53

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37	Dynamic profiling of double-stranded RNA binding proteins. <i>Nucleic Acids Research</i> , 2015, 43, 7566-7576.	6.5	53
38	Single Molecule Nanocontainers Made Porous Using a Bacterial Toxin. <i>Journal of the American Chemical Society</i> , 2009, 131, 14844-14849.	6.6	52
39	RNA Remodeling Activity of DEAD Box Proteins Tuned by Protein Concentration, RNA Length, and ATP. <i>Molecular Cell</i> , 2016, 63, 865-876.	4.5	51
40	The Chd1 Chromatin Remodeler Shifts Nucleosomal DNA Bidirectionally as a Monomer. <i>Molecular Cell</i> , 2017, 68, 76-88.e6.	4.5	50
41	Stepwise translocation of nucleic acid motors. <i>Current Opinion in Structural Biology</i> , 2010, 20, 121-127.	2.6	47
42	A guanine-flipping and sequestration mechanism for G-quadruplex unwinding by RecQ helicases. <i>Nature Communications</i> , 2018, 9, 4201.	5.8	46
43	A Helicase Unwinds Hexanucleotide Repeat RNA G-Quadruplexes and Facilitates Repeat-Associated Non-AUG Translation. <i>Journal of the American Chemical Society</i> , 2021, 143, 7368-7379.	6.6	43
44	Poly(ADP-ribose) drives condensation of FUS via a transient interaction. <i>Molecular Cell</i> , 2022, 82, 969-985.e11.	4.5	41
45	Repetitive RNA unwinding by RNA helicase A facilitates RNA annealing. <i>Nucleic Acids Research</i> , 2014, 42, 8556-8564.	6.5	39
46	Single-molecule real-time detection of telomerase extension activity. <i>Scientific Reports</i> , 2014, 4, 6391.	1.6	37
47	Unraveling helicase mechanisms one molecule at a time. <i>Nucleic Acids Research</i> , 2006, 34, 4225-4231.	6.5	28
48	Methods to Study Phase-Separated Condensates and the Underlying Molecular Interactions. <i>Trends in Biochemical Sciences</i> , 2020, 45, 1004-1005.	3.7	28
49	Is transcriptional regulation just going through a phase?. <i>Molecular Cell</i> , 2021, 81, 1579-1585.	4.5	27
50	<i>E. coli</i> Rep helicase and RecA recombinase unwind G4 DNA and are important for resistance to G4-stabilizing ligands. <i>Nucleic Acids Research</i> , 2020, 48, 6640-6653.	6.5	24
51	Position-Dependent Effect of Guanine Base Damage and Mutations on Telomeric G-Quadruplex and Telomerase Extension. <i>Biochemistry</i> , 2020, 59, 2627-2639.	1.2	21
52	Quantitative analysis and prediction of G-quadruplex forming sequences in double-stranded DNA. <i>Nucleic Acids Research</i> , 2016, 44, 4807-4817.	6.5	20
53	Regeneration of PEG slide for multiple rounds of single-molecule measurements. <i>Biophysical Journal</i> , 2021, 120, 1788-1799.	0.2	19
54	Next generation single-molecule techniques: Imaging, labeling, and manipulation in <i>in vitro</i> and in <i>cellulo</i> . <i>Molecular Cell</i> , 2022, 82, 304-314.	4.5	17

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55	G-Quadruplex and Protein Binding by Single-Molecule FRET Microscopy. <i>Methods in Molecular Biology</i> , 2019, 2035, 309-322.	0.4	15
56	The yeast Hrq1 helicase stimulates Pso2 translesion nuclease activity and thereby promotes DNA interstrand crosslink repair. <i>Journal of Biological Chemistry</i> , 2020, 295, 8945-8957.	1.6	12
57	Single-Molecule Nanopositioning: Structural Transitions of a Helicase-DNA Complex during ATP Hydrolysis. <i>Biophysical Journal</i> , 2011, 101, 976-984.	0.2	11
58	Single-molecule and ensemble methods to probe RNP nucleation and condensate properties. <i>Methods</i> , 2022, 197, 74-81.	1.9	11
59	Protocol for generation and regeneration of PEG-passivated slides for single-molecule measurements. <i>STAR Protocols</i> , 2022, 3, 101152.	0.5	11
60	RNA Scanning of a Molecular Machine with a Built-in Ruler. <i>Journal of the American Chemical Society</i> , 2017, 139, 262-268.	6.6	10
61	Just Took a DNA Test, Turns Out 100% Not That Phase. <i>Molecular Cell</i> , 2020, 78, 193-194.	4.5	10
62	Antigenic Variation in <i>Neisseria gonorrhoeae</i> Occurs Independently of RecQ-Mediated Unwinding of the <i>pilE</i> G Quadruplex. <i>Journal of Bacteriology</i> , 2020, 202, .	1.0	9
63	Context-Dependent Remodeling of Rad51-DNA Complexes by Srs2 Is Mediated by a Specific Protein-Protein Interaction. <i>Journal of Molecular Biology</i> , 2014, 426, 1883-1897.	2.0	8
64	Single-Molecule and Ensemble Methods to Probe Initial Stages of RNP Granule Assembly. <i>Methods in Molecular Biology</i> , 2018, 1814, 325-338.	0.4	8
65	TRF2 promotes dynamic and stepwise looping of POT1 bound telomeric overhang. <i>Nucleic Acids Research</i> , 2021, 49, 12377-12393.	6.5	8
66	Molecular Mechanism of Resolving Trinucleotide Repeat Hairpin by Helicases. <i>Structure</i> , 2015, 23, 1018-1027.	1.6	6
67	Visualizing repetitive diffusion activity of double-strand RNA binding proteins by single molecule fluorescence assays. <i>Methods</i> , 2016, 105, 109-118.	1.9	6
68	Single-Molecule Imaging With One Color Fluorescence. <i>Methods in Enzymology</i> , 2016, 581, 33-51.	0.4	6
69	Probing steps in DNA transcription using single-molecule methods. <i>Journal of Biological Chemistry</i> , 2021, 297, 101086.	1.6	6
70	RNA stem structure governs coupling of dicing and gene silencing in RNA interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10349-E10358.	3.3	5
71	Vectorial folding of telomere overhang promotes higher accessibility. <i>Nucleic Acids Research</i> , 2022, 50, 6271-6283.	6.5	4
72	Single-Cell Imaging Approaches for Studying Small-RNA-Induced Gene Regulation. <i>Biophysical Journal</i> , 2018, 115, 203-208.	0.2	2

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73	Detection of Methylation on dsDNA at Single-Molecule Level using Solid-State Nanopores. <i>Biophysical Journal</i> , 2018, 114, 216a.	0.2	1
74	Probing Dynamic Assembly and Disassembly of Rad51 Tuned by Srs2 Using smFRET. <i>Methods in Enzymology</i> , 2018, 600, 321-345.	0.4	1
75	Editorial overview: Advances and future prospects of molecular imaging for studying and quantifying biological processes. <i>Current Opinion in Chemical Biology</i> , 2019, 51, A4-A5.	2.8	1
76	Single molecule probing of disordered RNA binding proteins. <i>STAR Protocols</i> , 2022, 3, 101131.	0.5	1
77	Characterization of Single Molecule Protein Induced Fluorescence Enhancement (PIFE) as an Alternative to SmFRET. <i>Biophysical Journal</i> , 2010, 98, 590a.	0.2	0
78	Single Molecule Detection of One, Two and Multiplex Proteins Involved in DNA/RNA Transaction. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 125-137.	1.0	0
79	Single Molecule Imaging of Proteins That Recognize and Repair DNA Damages. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 223-231.	1.9	0
80	Quantitative Analysis of RNA Interference by mRNA Counting at Single-Cell Level. <i>Biophysical Journal</i> , 2015, 108, 364a.	0.2	0
81	Single molecule probing by fluorescence and force detection. <i>Methods</i> , 2016, 105, 1-2.	1.9	0
82	Systematic and Quantitative Analysis of G-Quadruplex DNA Folding. <i>Biophysical Journal</i> , 2016, 110, 565a.	0.2	0
83	Evolving Methods in Defining the Role of RNA in RNP Assembly. <i>Biological and Medical Physics Series</i> , 2019, , 39-55.	0.3	0
84	Helicase mediated vectorial folding of telomere G-quadruplex. <i>Methods in Enzymology</i> , 2022, , 283-297.	0.4	0