Ja Yil Lee

List of Publications by Year
in descending order

28 papers	1,207 citations	516710 16 h-index	552781 26 g-index
29 all docs	29 docs citations	29 times ranked	1514 citing authors

#	Article	IF	Citations
1	Extreme conformational diversity in human telomeric DNA. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18938-18943.	7.1	252
2	DNA Sequence Alignment by Microhomology Sampling during Homologous Recombination. Cell, 2015, 160, 856-869.	28.9	182
3	Base triplet stepping by the Rad51/RecA family of recombinases. Science, 2015, 349, 977-981.	12.6	145
4	Tension modulates actin filament polymerization mediated by formin and profilin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9752-9757.	7.1	115
5	Single-Molecule Imaging of FtsK Translocation Reveals Mechanistic Features of Protein-Protein Collisions on DNA. Molecular Cell, 2014, 54, 832-843.	9.7	58
6	Single-molecule imaging of DNA curtains reveals mechanisms of KOPS sequence targeting by the DNA translocase FtsK. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6531-6536.	7.1	56
7	Structural Diversity and Extreme Stability of Unimolecular Oxytricha nova Telomeric G-Quadruplex. Biochemistry, 2008, 47, 3389-3396.	2.5	53
8	Single-molecule visualization reveals the damage search mechanism for the human NER protein XPC-RAD23B. Nucleic Acids Research, 2019, 47, 8337-8347.	14.5	46
9	TonEBP recognizes R-loops and initiates m6A RNA methylation for R-loop resolution. Nucleic Acids Research, 2021, 49, 269-284.	14.5	41
10	Structural basis of nucleosome assembly by the Abo1 AAA+ÂATPase histone chaperone. Nature Communications, 2019, 10, 5764.	12.8	36
11	Dramatic effect of single-base mutation on the conformational dynamics of human telomeric G-quadruplex. Nucleic Acids Research, 2009, 37, 3625-3634.	14.5	34
12	ATP hydrolysis Promotes Duplex DNA Release by the RecA Presynaptic Complex. Journal of Biological Chemistry, 2016, 291, 22218-22230.	3.4	28
13	Sequence imperfections and base triplet recognition by the Rad51/RecA family of recombinases. Journal of Biological Chemistry, 2017, 292, 11125-11135.	3.4	26
14	Transcription reinitiation by recycling RNA polymerase that diffuses on DNA after releasing terminated RNA. Nature Communications, 2020, 11, 450.	12.8	25
15	Male circumcision: a South Korean perspective. BJU International, 2002, 83, 28-33.	2.5	24
16	Assembly of Recombinant Nucleosomes on Nanofabricated DNA Curtains for Single-Molecule Imaging. Methods in Molecular Biology, 2011, 778, 243-258.	0.9	16
17	Glucosylceramide synthase regulates adipoâ€osteogenic differentiation through synergistic activation of PPARÎ³ with GlcCer. FASEB Journal, 2020, 34, 1270-1287.	0.5	13
18	Measuring intermolecular rupture forces with a combined TIRF-optical trap microscope and DNA curtains. Biochemical and Biophysical Research Communications, 2012, 426, 565-570.	2.1	11

#	Article	IF	Citations
19	Two-color picosecond and continuous-wave experiments on anti-Stokes and Stokes carrier-transfer phenomena inGaAs/AlxGa1â^'xAsandInGaP2/AlxGa1â^'xAsheterostructures. Physical Review B, 1999, 60, 8883-8889.	3.2	9
20	Highâ€throughput singleâ€molecule imaging system using nanofabricated trenches and fluorescent DNAâ€binding proteins. Biotechnology and Bioengineering, 2020, 117, 1640-1648.	3.3	9
21	Assembly of DNA Curtains Using Hydrogen Silsesquioxane As a Barrier to Lipid Diffusion. Analytical Chemistry, 2012, 84, 7613-7617.	6.5	8
22	Direct observation of the formation of DNA triplexes by single-molecule FRET measurements. Current Applied Physics, 2012, 12, 1027-1032.	2.4	7
23	A novel high-throughput single-molecule technique: DNA curtain. Journal of the Korean Physical Society, 2021, 78, 442-448.	0.7	4
24	Single-Molecule Imaging Reveals the Mechanism Underlying Histone Loading of Schizosaccharomyces pombe AAA+ ATPase Abo1. Molecules and Cells, 2021, 44, 79-87.	2.6	4
25	Characterization of the Evanescent Field in Objective-Based Total-Internal-Reflection Fluorescence (TIRF) Microscopy. Journal of the Korean Physical Society, 2007, 50, 1340.	0.7	2
26	Deciphering Molecular Mechanism of Histone Assembly by DNA Curtain Technique. Journal of Visualized Experiments, 2022, , .	0.3	1
27	Studying R-Loop Recognizing Proteins Using Single-Molecule DNA Curtain Technique and Electrophoretic Mobility Shift Assay. Methods in Molecular Biology, 2022, , 253-269.	0.9	1
28	Biophysical and Biochemical Approaches for R-Loop Sensing Mechanism. , 0, , .		0