Nam Ki Lee

List of Publications by Year in Descending Order

44 papers	2,788 citations	20 h-index	49 g-index
49 ext. papers	3,347 ext. citations	10 avg, IF	4.62 L-index

#	Paper	IF	Citations
44	Cooperative inhibition of SNARE-mediated vesicle fusion by □synuclein monomers and oligomers. *Scientific Reports*, **2021**, 11, 10955	4.9	6
43	Contribution of a DNA Nick to DNA Bendability Depending on the Bending Force. *Bulletin of the Korean Chemical Society*, **2021**, 42, 1151-1154	1.2	1
42	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. *ELife*, **2021**, 10,	8.9	43
41	Membrane Binding of □Synuclein Stimulates Expansion of SNARE-Dependent Fusion Pore. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 663431	5.7	4
40	Mechanism of Cyanine5 to Cyanine3 Photoconversion and Its Application for High-Density Single-Particle Tracking in a Living Cell. *Journal of the American Chemical Society*, **2021**, 143, 14125-14135	16.4	6
39	Single-Molecule Methods for Investigating the Double-Stranded DNA Bendability. *Molecules and Cells*, **2021**,	3.5	2
38	Method for the Rapid Screening of Drug Candidates Using Single-Protein Tracking in a Living Cell. *Bulletin of the Korean Chemical Society*, **2021**, 42, 393-397	1.2	1
37	Single-molecule observation of ATP-independent SSB displacement by RecO in. *ELife*, **2020**, 9,	8.9	4
36	Transcription and translation contribute to gene locus relocation to the nucleoid periphery in E. coli. *Nature Communications*, **2019**, 10, 5131	17.4	12
35	Target Specificity of Cas9 Nuclease via DNA Rearrangement Regulated by the REC2 Domain. *Journal of the American Chemical Society*, **2018**, 140, 7778-7781	16.4	24
34	Direct visualization of single-molecule membrane protein interactions in living cells. *PLoS Biology*, **2018**, 16, e2006660	9.7	16
33	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. *Nature Methods*, **2018**, 15, 669-676	21.6	188
32	Single particle tracking-based reaction progress kinetic analysis reveals a series of molecular mechanisms of cetuximab-induced EGFR processes in a single living cell. *Chemical Science*, **2017**, 8, 4823-4832	9.4	19
31	Light-Induced Fluorescence Modulation of Quantum Dot-Crystal Violet Conjugates: Stochastic Off-On-Off Cycles for Multicolor Patterning and Super-Resolution. *Journal of the American Chemical Society*, **2017**, 139, 7603-7615	16.4	20
30	Architecture of the type IV coupling protein complex of Legionella pneumophila. *Nature Microbiology*, **2017**, 2, 17114	26.6	43
29	Two conformational states in D-shaped DNA: Effects of local denaturation. *Scientific Reports*, **2016**, 6, 28239	4.9	6
28	High-resolution pluronic-filled microchip CE-SSCP analysis system via channel width control. *Electrophoresis*, **2016**, 37, 676-9	3.6	3

27	High Affinity Host-Guest FRET Pair for Single-Vesicle Content-Mixing Assay: Observation of Flickering Fusion Events. *Journal of the American Chemical Society*, **2015**, 137, 8908-11	16.4	60
26	Real-time submillisecond single-molecule FRET dynamics of freely diffusing molecules with liposome tethering. *Nature Communications*, **2015**, 6, 6992	17.4	48
25	Dynamic Release of Bending Stress in Short dsDNA by Formation of a Kink and Forks. *Angewandte Chemie - International Edition*, **2015**, 54, 8943-7	16.4	13
24	Dynamic Release of Bending Stress in Short dsDNA by Formation of a Kink and Forks. *Angewandte Chemie*, **2015**, 127, 9071-9075	3.6	1
23	Quantitative Understanding of Probabilistic Behavior of Living Cells Operated by Vibrant Intracellular Networks. *Physical Review X*, **2015**, 5,	9.1	5
22	Analysis of Interactions between the Epidermal Growth Factor Receptor and Soluble Ligands on the Basis of Single-Molecule Diffusivity in the Membrane of Living Cells. *Angewandte Chemie*, **2015**, 127, 7134-7138	3.6	0
21	Analysis of Interactions between the Epidermal Growth Factor Receptor and Soluble Ligands on the Basis of Single-Molecule Diffusivity in the Membrane of Living Cells. *Angewandte Chemie - International Edition*, **2015**, 54, 7028-32	16.4	14
20	The Cell Shape-determining Csd6 Protein from Helicobacter pylori Constitutes a New Family of L,D-Carboxypeptidase. *Journal of Biological Chemistry*, **2015**, 290, 25103-17	5.4	19
19	Molecular basis for SMC rod formation and its dissolution upon DNA binding. *Molecular Cell*, **2015**, 57, 290-303	17.6	101
18	Contribution of RNA polymerase concentration variation to protein expression noise. *Nature Communications*, **2014**, 5, 4761	17.4	36
17	Large □synuclein oligomers inhibit neuronal SNARE-mediated vesicle docking. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4087-92	11.5	181
16	Effect of ring torsion on intramolecular vibrational redistribution dynamics of 1,1Ubinaphthyl and 2,2Ubinaphthyl. *Physical Chemistry Chemical Physics*, **2012**, 14, 840-8	3.6	5
15	Direct characterization of protein oligomers and their quaternary structures by single-molecule FRET. *Chemical Communications*, **2012**, 48, 1138-40	5.8	16
14	Solution single-vesicle assay reveals PIP2-mediated sequential actions of synaptotagmin-1 on SNAREs. *EMBO Journal*, **2012**, 31, 2144-55	13	58
13	Single-molecule approach to molecular biology in living bacterial cells. *Annual Review of Biophysics*, **2008**, 37, 417-44	21.1	286
12	Folding of 8-17 deoxyribozyme studied by three-color alternating-laser excitation of single molecules. *Journal of the American Chemical Society*, **2007**, 129, 15526-34	16.4	49
11	Three-color alternating-laser excitation of single molecules: monitoring multiple interactions and distances. *Biophysical Journal*, **2007**, 92, 303-12	2.9	161
10	Alternating-laser excitation of single molecules. *Accounts of Chemical Research*, **2005**, 38, 523-33	24.3	276

9	Accurate FRET measurements within single diffusing biomolecules using alternating-laser excitation. *Biophysical Journal*, **2005**, 88, 2939-53	2.9	346
8	Ab initio-based intermolecular carbon-carbon pair potentials for polycyclic aromatic hydrocarbon clusters. *Journal of Chemical Physics*, **2005**, 122, 31102	3.9	14
7	Fluorescence-aided molecule sorting: analysis of structure and interactions by alternating-laser excitation of single molecules. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8936-41	11.5	494
6	Multiple ion cores in anthracene anion clusters. *Angewandte Chemie - International Edition*, **2003**, 42, 213-6	16.4	22
5	Anion clusters of anthracene, An_n^- (n=1–16). *Journal of Chemical Physics*, **2003**, 119, 3071-3077	3.9	38
4	Photoelectron spectroscopy of pyrazine anion clusters. *Journal of Chemical Physics*, **2002**, 117, 1589-1594	3.9	20
3	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. I. Benzene–naphthalene complex. *Journal of Chemical Physics*, **2002**, 116, 7902-7909	3.9	36
2	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. II. Naphthalene dimer and naphthalene–anthracene complex. *Journal of Chemical Physics*, **2002**, 116, 7910-7917	3.9	75
1	The naphthalene-benzene anion: Anion complex of aromatic hydrocarbons with the smallest electron affinity. *Journal of Chemical Physics*, **2002**, 117, 9973-9976	3.9	10