

Nam Ki Lee

List of Publications by Citations

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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	Fluorescence-aided molecule sorting: analysis of structure and interactions by alternating-laser excitation of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8936-41	11.5	494
43	Accurate FRET measurements within single diffusing biomolecules using alternating-laser excitation. <i>Biophysical Journal</i> , 2005 , 88, 2939-53	2.9	346
42	Single-molecule approach to molecular biology in living bacterial cells. <i>Annual Review of Biophysics</i> , 2008 , 37, 417-44	21.1	286
41	Alternating-laser excitation of single molecules. <i>Accounts of Chemical Research</i> , 2005 , 38, 523-33	24.3	276
40	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018 , 15, 669-676	21.6	188
39	Large Eynuclein oligomers inhibit neuronal SNARE-mediated vesicle docking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4087-92	11.5	181
38	Three-color alternating-laser excitation of single molecules: monitoring multiple interactions and distances. <i>Biophysical Journal</i> , 2007 , 92, 303-12	2.9	161
37	Molecular basis for SMC rod formation and its dissolution upon DNA binding. <i>Molecular Cell</i> , 2015 , 57, 290-303	17.6	101
36	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. II. Naphthalene dimer and naphthalene- π -anthracene complex. <i>Journal of Chemical Physics</i> , 2002 , 116, 7910-7917	3.9	75
35	High Affinity Host-Guest FRET Pair for Single-Vesicle Content-Mixing Assay: Observation of Flickering Fusion Events. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8908-11	16.4	60
34	Solution single-vesicle assay reveals PIP2-mediated sequential actions of synaptotagmin-1 on SNAREs. <i>EMBO Journal</i> , 2012 , 31, 2144-55	13	58
33	Folding of 8-17 deoxyribozyme studied by three-color alternating-laser excitation of single molecules. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15526-34	16.4	49
32	Real-time submillisecond single-molecule FRET dynamics of freely diffusing molecules with liposome tethering. <i>Nature Communications</i> , 2015 , 6, 6992	17.4	48
31	Architecture of the type IV coupling protein complex of <i>Legionella pneumophila</i> . <i>Nature Microbiology</i> , 2017 , 2, 17114	26.6	43
30	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021 , 10,	8.9	43
29	Anion clusters of anthracene, Ann(n=1-6). <i>Journal of Chemical Physics</i> , 2003 , 119, 3071-3077	3.9	38
28	Contribution of RNA polymerase concentration variation to protein expression noise. <i>Nature Communications</i> , 2014 , 5, 4761	17.4	36

27	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. I. Benzene-naphthalene complex. <i>Journal of Chemical Physics</i> , 2002 , 116, 7902-7909	3.9	36
26	Target Specificity of Cas9 Nuclease via DNA Rearrangement Regulated by the REC2 Domain. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7778-7781	16.4	24
25	Multiple ion cores in anthracene anion clusters. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 213-6	16.4	22
24	Light-Induced Fluorescence Modulation of Quantum Dot-Crystal Violet Conjugates: Stochastic Off-On-Off Cycles for Multicolor Patterning and Super-Resolution. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7603-7615	16.4	20
23	Photoelectron spectroscopy of pyrazine anion clusters. <i>Journal of Chemical Physics</i> , 2002 , 117, 1589-1594	3.9	20
22	Single particle tracking-based reaction progress kinetic analysis reveals a series of molecular mechanisms of cetuximab-induced EGFR processes in a single living cell. <i>Chemical Science</i> , 2017 , 8, 4823-4832	9.4	19
21	The Cell Shape-determining Csd6 Protein from <i>Helicobacter pylori</i> Constitutes a New Family of L,D-Carboxypeptidase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25103-17	5.4	19
20	Direct characterization of protein oligomers and their quaternary structures by single-molecule FRET. <i>Chemical Communications</i> , 2012 , 48, 1138-40	5.8	16
19	Direct visualization of single-molecule membrane protein interactions in living cells. <i>PLoS Biology</i> , 2018 , 16, e2006660	9.7	16
18	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. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7028-32	16.4	14
17	Ab initio-based intermolecular carbon-carbon pair potentials for polycyclic aromatic hydrocarbon clusters. <i>Journal of Chemical Physics</i> , 2005 , 122, 31102	3.9	14
16	Dynamic Release of Bending Stress in Short dsDNA by Formation of a Kink and Forks. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8943-7	16.4	13
15	Transcription and translation contribute to gene locus relocation to the nucleoid periphery in <i>E. coli</i> . <i>Nature Communications</i> , 2019 , 10, 5131	17.4	12
14	The naphthalene-benzene anion: Anion complex of aromatic hydrocarbons with the smallest electron affinity. <i>Journal of Chemical Physics</i> , 2002 , 117, 9973-9976	3.9	10
13	Two conformational states in D-shaped DNA: Effects of local denaturation. <i>Scientific Reports</i> , 2016 , 6, 28239	4.9	6
12	Cooperative inhibition of SNARE-mediated vesicle fusion by β -synuclein monomers and oligomers. <i>Scientific Reports</i> , 2021 , 11, 10955	4.9	6
11	Mechanism of Cyanine5 to Cyanine3 Photoconversion and Its Application for High-Density Single-Particle Tracking in a Living Cell. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14125-14135	16.4	6
10	Quantitative Understanding of Probabilistic Behavior of Living Cells Operated by Vibrant Intracellular Networks. <i>Physical Review X</i> , 2015 , 5,	9.1	5

9	Effect of ring torsion on intramolecular vibrational redistribution dynamics of 1,10-bisnaphthyl and 2,2-bisnaphthyl. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 840-8	3.6	5
8	Single-molecule observation of ATP-independent SSB displacement by RecO in. <i>ELife</i> , 2020 , 9,	8.9	4
7	Membrane Binding of Synuclein Stimulates Expansion of SNARE-Dependent Fusion Pore. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 663431	5.7	4
6	High-resolution pluronic-filled microchip CE-SSCP analysis system via channel width control. <i>Electrophoresis</i> , 2016 , 37, 676-9	3.6	3
5	Single-Molecule Methods for Investigating the Double-Stranded DNA Bendability. <i>Molecules and Cells</i> , 2021 ,	3.5	2
4	Dynamic Release of Bending Stress in Short dsDNA by Formation of a Kink and Forks. <i>Angewandte Chemie</i> , 2015 , 127, 9071-9075	3.6	1
3	Contribution of a DNA Nick to DNA Bendability Depending on the Bending Force. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 1151-1154	1.2	1
2	Method for the Rapid Screening of Drug Candidates Using Single-Protein Tracking in a Living Cell. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 393-397	1.2	1
1	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. <i>Angewandte Chemie</i> , 2015 , 127, 7134-7138	3.6	0