Liming Ying

List of Publications by Year
in descending order

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104 papers	4,868 citations	87843 38 h-index	98753 67 g-index
110 all docs	110 docs citations	110 times ranked	5835 citing authors

#	Article	IF	Citations
1	Structural basis of membrane disruption and cellular toxicity by Î±-synuclein oligomers. Science, 2017, 358, 1440-1443.	6.0	492
2	Studies on the structure and dynamics of the human telomeric G quadruplex by single-molecule fluorescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14629-14634.	3.3	286
3	A CRISPRâ€“Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. Nature Communications, 2018, 9, 5012.	5.8	244
4	Writing with DNA and Protein Using a Nanopipet for Controlled Delivery. Journal of the American Chemical Society, 2002, 124, 8810-8811.	6.6	185
5	Non-Arrhenius kinetics for the loop closure of a DNA hairpin. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5584-5589.	3.3	179
6	Ultrasensitive Coincidence Fluorescence Detection of Single DNA Molecules. Analytical Chemistry, 2003, 75, 1664-1670.	3.2	162
7	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. Angewandte Chemie - International Edition, 2018, 57, 10268-10272.	7.2	154
8	Frequency and Voltage Dependence of the Dielectrophoretic Trapping of Short Lengths of DNA and dCTP in a Nanopipette. Biophysical Journal, 2004, 86, 1018-1027.	0.2	139
9	Fluorescence Spectroscopy, Exciton Dynamics, and Photochemistry of Single Allophycocyanin Trimers. Journal of Physical Chemistry B, 1998, 102, 10399-10409.	1.2	138
10	Fluorescence resonance energy transfer between a quantum dot donor and a dye acceptor attached to DNA. Chemical Communications, 2005, , 4807.	2.2	138
11	A Compact Functional Quantum Dotâ^'DNA Conjugate:â€‰ Preparation, Hybridization, and Specific Label-Free DNA Detection. Langmuir, 2008, 24, 1659-1664.	1.6	138
12	Single-Molecule Conformational Analysis of G-Quadruplex Formation in the Promoter DNA Duplex of the Proto-Oncogene C-Kit. Journal of the American Chemical Society, 2007, 129, 7484-7485.	6.6	121
13	Distinguishing between cooperative and unimodal downhill protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 123-127.	3.3	117
14	Multicomponent Submicron Features of Biomolecules Created by Voltage Controlled Deposition from a Nanopipet. Journal of the American Chemical Society, 2003, 125, 9834-9839.	6.6	116
15	Trapping of Proteins under Physiological Conditions in a Nanopipette. Angewandte Chemie - International Edition, 2005, 44, 3747-3750.	7.2	108
16	The scanned nanopipette: a new tool for high resolution bioimaging and controlled deposition of biomolecules. Physical Chemistry Chemical Physics, 2005, 7, 2859.	1.3	107
17	Kinetics of Unfolding the Human Telomeric DNA Quadruplex Using a PNA Trap. Journal of the American Chemical Society, 2003, 125, 3763-3767.	6.6	100
18	Multiple conformations of full-length p53 detected with single-molecule fluorescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20758-20763.	3.3	96

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19	FRET Fluctuation Spectroscopy:Â Exploring the Conformational Dynamics of a DNA Hairpin Loop. Journal of Physical Chemistry B, 2000, 104, 11551-11555.	1.2	93
20	Self-Assembly Ultrathin Films Based on Diazoresins. Langmuir, 1999, 15, 7208-7212.	1.6	91
21	Programmable Delivery of DNA through a Nanopipet. Analytical Chemistry, 2002, 74, 1380-1385.	3.2	84
22	Surface Conductivity of Biological Macromolecules Measured by Nanopipette Dielectrophoresis. Physical Review Letters, 2007, 98, 198102.	2.9	71
23	In vivo localizations of membrane stress controllers PspA and PspG in Escherichia coli. Molecular Microbiology, 2009, 73, 382-396.	1.2	63
24	The docking of synaptic vesicles on the presynaptic membrane induced by Î±-synuclein is modulated by lipid composition. Nature Communications, 2021, 12, 927.	5.8	63
25	Room-temperature fluorescence, phosphorescence and crystal structures of 4-acyl pyrazolone lanthanide complexes: Ln(L)3Â·2H2O. Polyhedron, 1997, 16, 1381-1389.	1.0	57
26	Ratiometric Analysis of Single-Molecule Fluorescence Resonance Energy Transfer Using Logical Combinations of Threshold Criteria:Â A Study of 12-mer DNA. Journal of Physical Chemistry B, 2000, 104, 5171-5178.	1.2	56
27	Direct observation of barrier-limited folding of BBL by single-molecule fluorescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16239-16244.	3.3	56
28	A Renewable Nanosensor Based on a Glass Nanopipette. Journal of the American Chemical Society, 2006, 128, 16462-16463.	6.6	55
29	Building Three-Dimensional Surface Biological Assemblies on the Nanometer Scale. Nano Letters, 2003, 3, 1517-1520.	4.5	51
30	Measuring single-molecule nucleic acid dynamics in solution by two-color filtered ratiometric fluorescence correlation spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14425-14430.	3.3	47
31	Introduction of a Fluorescent Probe to Amyloidâ€Î² to Reveal Kinetic Insights into Its Interactions with Copper(II). Angewandte Chemie - International Edition, 2015, 54, 1227-1230.	7.2	47
32	The N-Terminal Amphipathic Helices Determine Regulatory and Effector Functions of Phage Shock Protein A (PspA) in Escherichia coli. Journal of Molecular Biology, 2014, 426, 1498-1511.	2.0	46
33	Characterization of a Single Molecule DNA Switch in Free Solution. Journal of the American Chemical Society, 2006, 128, 11423-11432.	6.6	44
34	Identification of a new RNA{middle dot}RNA interaction site for human telomerase RNA (hTR): structural implications for hTR accumulation and a dyskeratosis congenita point mutation. Nucleic Acids Research, 2003, 31, 6509-6515.	6.5	43
35	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. Angewandte Chemie, 2018, 130, 10425-10429.	1.6	43
36	Analysis of Human Telomerase Activity and Function by Two Color Single Molecule Coincidence Fluorescence Spectroscopy. Journal of the American Chemical Society, 2006, 128, 4992-5000.	6.6	42

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37	Two-state model of conformational fluctuation in a DNA hairpin-loop. Chemical Physics Letters, 2001, 334, 145-150.	1.2	40
38	Characterization and Application of Controllable Local Chemical Changes Produced by Reagent Delivery from a Nanopipet. Journal of the American Chemical Society, 2008, 130, 10386-10393.	6.6	40
39	Dynamic Equilibrium of the Auroraâ€…A Kinase Activation Loop Revealed by Singleâ€Molecule Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 11409-11414.	7.2	37
40	Excited State Properties and Intramolecular Energy Transfer of Rare-Earth Acylpyrazolone Complexes. The Journal of Physical Chemistry, 1996, 100, 18387-18391.	2.9	31
41	Investigating a Quadruplexâ^'Ligand Interaction by Unfolding Kinetics. Journal of the American Chemical Society, 2006, 128, 9809-9812.	6.6	30
42	Photoelectric Generation and Second-Order Nonlinear Optical Characters of the Dichromophore Dye Molecules. Journal of Physical Chemistry B, 1999, 103, 7130-7134.	1.2	29
43	Applications of nanopipettes in bionanotechnology. Biochemical Society Transactions, 2009, 37, 702-706.	1.6	29
44	Dynamics and stoichiometry of a regulated enhancer-binding protein in live Escherichia coli cells. Nature Communications, 2013, 4, 1997.	5.8	26
45	High resolution imaging using scanning ion conductance microscopy with improved distance feedback control. Progress in Natural Science: Materials International, 2008, 18, 671-677.	1.8	25
46	Measuring the stoichiometry of functional PspA complexes in living bacterial cells by single molecule photobleaching. Chemical Communications, 2011, 47, 400-402.	2.2	23
47	Kinetic Analysis Reveals the Identity of AÎ²-Metal Complex Responsible for the Initial Aggregation of AÎ² in the Synapse. ACS Chemical Neuroscience, 2017, 8, 1970-1979.	1.7	22
48	Theoretical Studies of XONO2â^'H2O (X = Cl, H) Complexes. Journal of Physical Chemistry A, 1997, 101, 6807-6812.	1.1	21
49	Anionic lipids and the cytoskeletal proteins MreB and RodZ define the spatio-temporal distribution and function of membrane stress controller PspA in Escherichia coli. Microbiology (United Kingdom), 2014, 160, 2374-2386.	0.7	21
50	A Simple Nanomixer for Single-Molecule Kinetics Measurements. Angewandte Chemie - International Edition, 2006, 45, 7540-7543.	7.2	20
51	Fabrication and their photoelectric conversion properties of two kinds of self-assembled monolayers and Langmuirâ€“Blodgett film of mono-substituted C60-malonic acid. Applied Surface Science, 1999, 151, 153-158.	3.1	19
52	Characterization of a Novel Light Source for Simultaneous Optical and Scanning Ion Conductance Microscopy. Analytical Chemistry, 2002, 74, 2612-2616.	3.2	18
53	Photodissociation of methylazide: Observation of triplet methylnitrene radical. Journal of Chemical Physics, 1996, 105, 5798-5805.	1.2	17
54	Ab Initio and Density Functional Studies of HOBrâ^'H2O and BrONO2â^'H2O Complexes. Journal of Physical Chemistry A, 1997, 101, 3569-3573.	1.1	16

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55	Langmuirâ"Blodgett Film of a Europium Complex and Its Application in a Silver Mirror Planar Microcavity. Langmuir, 1998, 14, 417-422.	1.6	15
56	Single molecule conformational analysis of the biologically relevant DNA G-quadruplex in the promoter of the proto-oncogene c-MYC. Chemical Communications, 2008, , 2007.	2.2	15
57	Studies of G-quadruplexes formed within self-assembled DNA mini-circles. Chemical Communications, 2016, 52, 12454-12457.	2.2	15
58	Kinetics of the Interactions between Copper and Amyloidâ€Î² with FAD Mutations and Phosphorylation at the Nâ€...terminus. ChemBioChem, 2016, 17, 1732-1737.	1.3	15
59	Synthesis, monolayer fabrication and photoelectric conversion property of two pyrrolidinofullerene carboxylic acid derivatives1The work was mainly done in State Key Laboratory of Rare Earth Materials Chemistry and Applications, Peking University, Beijing 100871, P.R. China.1. Chemical Physics Letters, 2000, 319, 7-12.	1.2	14
60	Fluorescence studies of single biomolecules. Biochemical Society Transactions, 2004, 32, 753-756.	1.6	13
61	G-Quadruplexesâ€"Novel Mediators of Gene Function. Journal of Cardiovascular Translational Research, 2011, 4, 256-270.	1.1	13
62	Antioxidant lipoic acid ligand-shell gold nanoconjugates against oxidative stress caused by Î±-synuclein aggregates. Nanoscale Advances, 2020, 2, 5666-5681.	2.2	13
63	A Simple Voltage Controlled Enzymatic Nanoreactor Produced in the Tip of a Nanopipet. Nano Letters, 2004, 4, 1859-1862.	4.5	12
64	Probing nanosecond motions of plasminogen activator inhibitor-1 by time-resolved fluorescence anisotropy. Molecular BioSystems, 2009, 5, 1025.	2.9	12
65	Hierarchical binding of copperII to N-truncated AÎ²4â€"16 peptide. Metallomics, 2020, 12, 470-473.	1.0	12
66	Dissociation dynamics of methylazide on the first excited singlet surface. Chemical Physics Letters, 1995, 236, 318-323.	1.2	11
67	Single molecule biology: Coming of age. Molecular BioSystems, 2007, 3, 377.	2.9	11
68	Ensemble and single molecule FRET analysis of the structure and unfolding kinetics of the c-kit promoter quadruplexes. Chemical Communications, 2010, 46, 946-948.	2.2	11
69	Investigation of theAÌƒâ€‰3Eâ†"XÌƒâ€‰3A2system of methylnitrene radical by laser spectroscopy. Journal of Chemical Physics, 1995, 103, 4418-4426.	1.2	10
70	Laser induced dispersed fluorescence spectra of CH3N radical and the lifetime of its Ãƒ3E state. Chemical Physics Letters, 1997, 267, 345-350.	1.2	9
71	Aggregation and Self-Organization of a Chromophore-Labeled Double-Chain Amphiphile. Langmuir, 2000, 16, 3651-3659.	1.6	9
72	Possible Regulatory Roles of Promoter G-Quadruplexes in Cardiac Function-Related Genes â€" Human TnIc as a Model. PLoS ONE, 2013, 8, e53137.	1.1	9

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73	Redox Kinetics of the Amyloid-Î²-Cu Complex and Its Biological Implications. Biochemistry, 2018, 57, 6228-6233.	1.2	9
74	Ligand discrimination between active and inactive activation loop conformations of Aurora-A kinase is unmodified by phosphorylation. Chemical Science, 2019, 10, 4069-4076.	3.7	8
75	A highly stable RNA aptamer probe for the retinoblastoma protein in live cells. Chemical Science, 2020, 11, 4467-4474.	3.7	7
76	A Novel AÎ²40 Assembly at Physiological Concentration. Scientific Reports, 2020, 10, 9477.	1.6	6
77	Individual Molecules of Dye-Labeled DNA Act as a Reversible Two-Color Switch upon Application of an Electric Field. Angewandte Chemie - International Edition, 2004, 43, 5926-5930.	7.2	5
78	Is the cellular and molecular machinery docile in the stationary phase of Escherichia coli?. Biochemical Society Transactions, 2015, 43, 168-171.	1.6	5
79	Dynamic Equilibrium of the Auroraâ€…A Kinase Activation Loop Revealed by Singleâ€Molecule Spectroscopy. Angewandte Chemie, 2017, 129, 11567-11572.	1.6	5
80	Acetylation Rather than H50Q Mutation Impacts the Kinetics of Cu(II) Binding to Î±â€Synuclein. ChemPhysChem, 2021, 22, 2413-2419.	1.0	4
81	The Stability of the <I>Ã</I> ³<I>E</I> State Methylnitrene Radical. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 1993, 9, 594-596.	2.2	3
82	Comment on â€œTrapping Single Molecules by Dielectrophoresisâ€. Physical Review Letters, 2006, 96, 199801; author reply 199802.	2.9	2
83	Reply to Campos et al.: Direct observation versus ambiguous kinetics and thermodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, .	3.3	2
84	The Lack of Mutagenic Potential of a Guanine-Rich Triplex Forming Oligonucleotide in Physiological Conditions. Toxicological Sciences, 2017, 155, 101-111.	1.4	2
85	Photodissociation of CH₃N₃â€”Spectral Evidences for the Formation of Triplet CH₃N Radical. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 1995, 11, 961-964.	2.2	1
86	Self-Organiztion of a Double Chain Amphiphile DDPA Investigated by AFM. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 1999, 15, 385-389.	2.2	1
87	Aggregates in Rhodamine-labeled Phospholipid Films Probed by Spectroscopy and Atomic Force Microscopy. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2000, 16, 49-54.	2.2	1
88	Single Molecule Fluorescence Resonance Energy Transfer and Ensemble Biophysical Characterization of a G-quadruplex Formed in the Promoter of Human Myocyte Enhancer Factor 2D. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2010, 26, 1099-1106.	2.2	1
89	Acetylation Rather than H50Q Mutation Impacts the Kinetics of Cu(II) Binding to Î±â€Synuclein. ChemPhysChem, 2021, 22, 2380-2380.	1.0	1
90	Probing Conformational Motion of Serpin by Time-Resolved and Single Molecule Fluorescence. Biophysical Journal, 2009, 96, 377a.	0.2	0

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91	Interaction between nitric oxide and lipidâ€like DDPA LB film investigated with SHG and AFM. Chinese Journal of Chemistry, 2000, 18, 25-28.	2.6	0
92	Single Molecule FRET Characterization of DNA G-Quadruplexes Formed In The Promoter of Human MEF2D and TNNI3 Genes. Biophysical Journal, 2010, 98, 265a.	0.2	0
93	P491Transcriptional regulatory roles of G-quadruplex DNA in promoters of genes involved in beta-adrenergic signaling pathway. Cardiovascular Research, 2014, 103, S89.4-S90.	1.8	0
94	Kinetics of the Interconversion Between Two Physiologically Important Copper-Bound Amyloid-Beta Species. Biophysical Journal, 2014, 106, 682a.	0.2	0
95	Kinetics of Metal Amyloid-Beta Binding and Efficacy of Ligands Targeting Metal Amyloid-Beta Interactions. Biophysical Journal, 2014, 106, 39a.	0.2	0
96	Secondary Metal Binding to Amyloid-Beta Monomer is Insignificant under Synaptic Conditions. Biophysical Journal, 2015, 108, 385a.	0.2	0
97	Efficient Lipid Peroxidation Catalyzed by Amyloid-Beta-Copper Complex: Observation of Chemical Oscillation and Chaos. Biophysical Journal, 2016, 110, 552a.	0.2	0
98	Probing Synaptic Amyloid-Beta Aggregation Promoted by Copper Release. Biophysical Journal, 2018, 114, 430a.	0.2	0
99	Bv8 contributes to neutrophil infiltration and triggers the angiogenesis of colon cancer via extracellular signal-regulated kinaseâ€“vascular endothelial growth factor signalling pathway. British Journal of Anaesthesia, 2019, 123, e500.	1.5	0
100	Redox Kinetics of the Amyloid-Beta-Copper Complex and Its Biological Implications. Biophysical Journal, 2019, 116, 28a.	0.2	0
101	Probing the Interactions of Intrinsically Disordered Protein with Metal Ions and Lipid Membranes by Fluorescence Spectroscopy. Biophysical Journal, 2021, 120, 30a-31a.	0.2	0
102	Single-Molecule Detection Studies of Diffusion of Rhodamine-labeled Phospholipids. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2000, 16, 393-397.	2.2	0
103	Reaction Kinetics and Mechanism of the Pyrolysis of Isobutane at High Temperature. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 1994, 10, 223-229.	2.2	0
104	Luminescence Properties and Energy Transfer of Rare Earth(III) Complexes. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 1998, 14, 811-816.	2.2	0