List of Publications by Year in descending order

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H Deted Li

#	Article	IF	CITATIONS
1	Probing Functional Conformation-State Fluctuation Dynamics in Recognition Binding between Calmodulin and Target Peptide. Journal of Chemical Physics, 2022, 156, 055102.	1.2	1
2	Unraveling the mechanism of tau protein aggregation in presence of zinc ion: The earliest step of tau aggregation. Chemical Physics Impact, 2022, 4, 100060.	1.7	2
3	Probing Protein–DNA Conformational Dynamics in DNA Damage Recognition: Xeroderma Pigmentosum Group A Stabilizes the Damaged DNA-RPA14 Complex by Controlling Conformational Fluctuation Dynamics. Journal of Physical Chemistry B, 2022, 126, 997-1003.	1.2	0
4	Ultra-sensitive lock-in amplifier coupled oscillatory magnetic tweezers for piconewton force manipulation applications. Journal of Applied Physics, 2021, 130, 014504.	1.1	0
5	Effect of Bis-diazirine-Mediated Photo-Crosslinking on Polyvinylcarbazole and Solution-Processed Polymer LEDs. ACS Applied Electronic Materials, 2021, 3, 3365-3371.	2.0	9
6	Conformational States and Fluctuations in Endothelial Nitric Oxide Synthase under Calmodulin Regulation. Biophysical Journal, 2021, 120, 5196-5206.	0.2	1
7	Compressive-force induced activation of apo-calmodulin in protein signalling. Physical Chemistry Chemical Physics, 2020, 22, 1092-1096.	1.3	4
8	Diazirine-based photo-crosslinkers for defect free fabrication of solution processed organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 11988-11996.	2.7	15
9	Spontaneous Rupture and Entanglement of Human Neuronal Tau Protein Induced by Piconewton Compressive Force. ACS Chemical Neuroscience, 2019, 10, 4061-4067.	1.7	6
10	Probing Activated and Non-Activated Single Calmodulin Molecules under a Piconewton Compressive Force. Biochemistry, 2018, 57, 1945-1948.	1.2	4
11	Revealing dynamically-organized receptor ion channel clusters in live cells by a correlated electric recording and super-resolution single-molecule imaging approach. Physical Chemistry Chemical Physics, 2018, 20, 8088-8098.	1.3	7
12	Revealing Abrupt and Spontaneous Ruptures of Protein Native Structure under picoNewton Compressive Force Manipulation. ACS Nano, 2018, 12, 2448-2454.	7.3	9
13	Ratiometric Near-Infrared Fluorescent Probes Based On Through-Bond Energy Transfer and Ï€-Conjugation Modulation between Tetraphenylethene and Hemicyanine Moieties for Sensitive Detection of pH Changes in Live Cells. Bioconjugate Chemistry, 2018, 29, 1406-1418.	1.8	61
14	Probing Dynamic Heterogeneity in Aggregated Ion Channels in Live Cells. Journal of Physical Chemistry C, 2018, 122, 13716-13723.	1.5	1
15	Raman spectroscopy probing of redox states and mechanism of flavin coenzyme. Journal of Raman Spectroscopy, 2018, 49, 1311-1322.	1.2	9
16	Exploration of Multistate Conformational Dynamics upon Ligand Binding of a Monomeric Enzyme Involved in Pyrophosphoryl Transfer. Journal of Physical Chemistry B, 2018, 122, 1885-1897.	1.2	3
17	Oscillating Piconewton Force Manipulation on Single-Molecule Enzymatic Conformational and Reaction Dynamics. Journal of Physical Chemistry B, 2018, 122, 12312-12321.	1.2	1
18	Raman Spectroscopic Analysis of Signaling Molecules–Dopamine Receptors Interactions in Living Cells. ACS Omega, 2018, 3, 14849-14857.	1.6	8

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19	Single-Molecule Spectroscopy Study of Crowding-Induced Protein Spontaneous Denature and Crowding-Perturbed Unfolding–Folding Conformational Fluctuation Dynamics. Journal of Physical Chemistry B, 2018, 122, 6724-6732.	1.2	8
20	Mode-Selective Raman Imaging of Dopamine–Human Dopamine Transporter Interaction in Live Cells. ACS Chemical Neuroscience, 2018, 9, 3117-3127.	1.7	8
21	Molecular mechanism of multispecific recognition of Calmodulin through conformational changes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3927-E3934.	3.3	37
22	Revealing Multiple Pathways in T4 Lysozyme Substep Conformational Motions by Single-Molecule Enzymology and Modeling. Journal of Physical Chemistry B, 2017, 121, 5017-5024.	1.2	8
23	Probing single-molecule electron–hole transfer dynamics at a molecule–NiO semiconductor nanocrystalline interface. Physical Chemistry Chemical Physics, 2017, 19, 17216-17223.	1.3	4
24	Tracking the Energy Flow on Nanoscale <i>via</i> Sample-Transmitted Excitation Photoluminescence Spectroscopy. ACS Nano, 2017, 11, 4191-4197.	7.3	15
25	Raman Spectroscopic Signature Markers of Dopamine–Human Dopamine Transporter Interaction in Living Cells. ACS Chemical Neuroscience, 2017, 8, 1510-1518.	1.7	27
26	Manipulating motions of targeted single cells in solution by an integrated double-ring magnetic tweezers imaging microscope. Review of Scientific Instruments, 2017, 88, 073703.	0.6	4
27	Tunneling Electron Induced Charging and Light Emission of Single Panhematin Molecules. Journal of Physical Chemistry C, 2016, 120, 21099-21103.	1.5	13
28	Probing conformational dynamics of an enzymatic active site by an in situ single fluorogenic probe under piconewton force manipulation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 15006-15011.	3.3	20
29	Electronic Coupling–Decoupling-Dependent Single-Molecule Interfacial Electron Transfer Dynamics in Electrostatically Attached Porphyrin on TiO2 Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 12313-12324.	1.5	3
30	Inhomogeneous and Complex Interfacial Electron-Transfer Dynamics: A Single-Molecule Perspective. ACS Energy Letters, 2016, 1, 773-791.	8.8	10
31	Single-Molecule Patch-Clamp FRET Anisotropy Microscopy Studies of NMDA Receptor Ion Channel Activation and Deactivation under Agonist Ligand Binding in Living Cells. Journal of the American Chemical Society, 2016, 138, 8789-8801.	6.6	18
32	Simultaneous Spectroscopic and Topographic Imaging of Single-Molecule Interfacial Electron-Transfer Reactivity and Local Nanoscale Environment. Journal of Physical Chemistry Letters, 2016, 7, 2221-2227.	2.1	9
33	Raman modeâ€selective spectroscopic imaging of coenzyme and enzyme redox states. Journal of Raman Spectroscopy, 2016, 47, 801-807.	1.2	9
34	Probing Electric Field Effect on Covalent Interactions at a Molecule–Semiconductor Interface. Journal of the American Chemical Society, 2016, 138, 1536-1542.	6.6	20
35	Probing Single-Molecule Ion Channel Conformational Dynamics in LivingÂCells. Biophysical Journal, 2016, 110, 6a.	0.2	1
36	Probing Driving Force and Electron Accepting State Density Dependent Interfacial Electron Transfer Dynamics: Suppressed Fluorescence Blinking of Single Molecules on Indium Tin Oxide Semiconductor. Journal of Physical Chemistry B, 2016, 120, 1685-1697.	1.2	9

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37	Protein-fluctuation-induced water-pore formation in ion channel voltage-sensor translocation across a lipid bilayer membrane. Physical Review E, 2015, 92, 052719.	0.8	3
38	Interrogating the activities of conformational deformed enzyme by single-molecule fluorescence-magnetic tweezers microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13904-13909.	3.3	34
39	Probing Single-Molecule Protein Spontaneous Folding–Unfolding Conformational Fluctuation Dynamics: The Multiple-State and Multiple-Pathway Energy Landscape. Journal of Physical Chemistry B, 2015, 119, 6366-6378.	1.2	13
40	Single-molecule interfacial electron transfer dynamics of porphyrin on TiO ₂ nanoparticles: dissecting the interfacial electric field and electron accepting state density dependent dynamics. Chemical Communications, 2015, 51, 16821-16824.	2.2	22
41	Single-molecule spectroscopy reveals how calmodulin activates NO synthase by controlling its conformational fluctuation dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11835-11840.	3.3	42
42	Growth of colloidal PbS nanosheets and the enhancement of their photoluminescence. Physical Chemistry Chemical Physics, 2015, 17, 23303-23307.	1.3	20
43	Single-Molecule Interfacial Electron Transfer Dynamics of Porphyrin on TiO ₂ Nanoparticles: Dissecting the Complex Electronic Coupling Dependent Dynamics. Journal of Physical Chemistry C, 2014, 118, 20209-20221.	1.5	32
44	Single-Molecule Enzymatic Conformational Dynamics: Spilling Out the Product Molecules. Journal of Physical Chemistry B, 2014, 118, 9128-9140.	1.2	18
45	Single-Molecule Patch-Clamp FRET Microscopy Studies of NMDA Receptor Ion Channel Dynamics in Living Cells: Revealing the Multiple Conformational States Associated with a Channel at Its Electrical Off State. Journal of the American Chemical Society, 2014, 136, 12998-13005.	6.6	32
46	Thickness-Controlled Synthesis of Colloidal PbS Nanosheets and Their Thickness-Dependent Energy Gaps. Chemistry of Materials, 2014, 26, 5433-5436.	3.2	73
47	Probing Protein Multidimensional Conformational Fluctuations by Single-Molecule Multiparameter Photon Stamping Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 11943-11955.	1.2	18
48	Manipulating and probing enzymatic conformational fluctuations and enzyme–substrate interactions by single-molecule FRET-magnetic tweezers microscopy. Physical Chemistry Chemical Physics, 2014, 16, 13052-13058.	1.3	22
49	Sizing up single-molecule enzymatic conformational dynamics. Chemical Society Reviews, 2014, 43, 1118-1143.	18.7	61
50	Suspended Lipid Bilayer for Optical and Electrical Measurements of Single Ion Channel Proteins. Analytical Chemistry, 2013, 85, 8951-8955.	3.2	18
51	Single-molecule photon stamping FRET spectroscopy study of enzymatic conformational dynamics. Physical Chemistry Chemical Physics, 2013, 15, 770-775.	1.3	24
52	Combined topographic, spectroscopic, and model analyses of inhomogeneous energetic coupling of linear light harvesting complex II aggregates in native photosynthetic membranes. Physical Chemistry Chemical Physics, 2013, 15, 5636.	1.3	3
53	Revealing the secondary structural changes of amyloid \hat{l}^2 peptide by probing the spectral fingerprint characters. Journal of Raman Spectroscopy, 2013, 44, 670-674.	1.2	29
54	Single-Cell Imaging and Spectroscopic Analyses of Cr(VI) Reduction on the Surface of Bacterial Cells. Langmuir, 2013, 29, 950-956.	1.6	44

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55	Enzymes in Coherent Motion. Science, 2012, 335, 300-301.	6.0	7
56	Correlated AFM-Spectroscopy Imaging of Linear Light Harvesting Protein Aggregates in Bacterial Native Photosynthetic Membrane. Biophysical Journal, 2012, 102, 166a-167a.	0.2	0
57	Total internal reflection fluorescence microscopy imaging-guided confocal single-molecule fluorescence spectroscopy. Review of Scientific Instruments, 2012, 83, 013110.	0.6	10
58	Manipulating Protein Conformations by Single-Molecule AFM-FRET Nanoscopy. ACS Nano, 2012, 6, 1221-1229.	7.3	68
59	Revealing time bunching effect in single-molecule enzyme conformational dynamics. Physical Chemistry Chemical Physics, 2011, 13, 6734.	1.3	18
60	Probing Single-Molecule Enzyme Active-Site Conformational State Intermittent Coherence. Journal of the American Chemical Society, 2011, 133, 14389-14395.	6.6	45
61	Simultaneous Spectroscopic and Topographic Near-Field Imaging of TiO ₂ Single Surface States and Interfacial Electronic Coupling. Nano Letters, 2011, 11, 1490-1494.	4.5	33
62	Probing Ground-State Single-Electron Self-Exchange across a Moleculeâ^'Metal Interface. Journal of the American Chemical Society, 2011, 133, 6989-6996.	6.6	23
63	Energy Transfer from Fluorescent Proteins to Metal Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 17587-17593.	1.5	49
64	Extracellular Reduction of Hexavalent Chromium by Cytochromes MtrC and OmcA of Shewanella oneidensis MR-1. Applied and Environmental Microbiology, 2011, 77, 4035-4041.	1.4	140
65	Acquiring a nano-view of single molecules in actions. Nano Reviews, 2010, 1, 5052.	3.7	1
66	AFM-Raman Imaging and Raman Spectral Fluctuation Analysis of Single-Molecule Interfacial Electron Transfer Dynamics. , 2010, , .		0
67	Combined Single-Molecule Photon-Stamping Spectroscopy and Femtosecond Transient Absorption Spectroscopy Studies of Interfacial Electron Transfer Dynamics. Journal of the American Chemical Society, 2010, 132, 1999-2004.	6.6	46
68	Revealing Linear Aggregates of Light Harvesting Antenna Proteins in Photosynthetic Membranes. Langmuir, 2010, 26, 307-313.	1.6	5
69	Bunching Effect in Single-Molecule T4 Lysozyme Nonequilibrium Conformational Dynamics under Enzymatic Reactions. Journal of Physical Chemistry B, 2010, 114, 6669-6674.	1.2	31
70	Probing Single-Molecule Interfacial Geminate Electronâ^'Cation Recombination Dynamics. Journal of the American Chemical Society, 2009, 131, 9020-9025.	6.6	32
71	Probing Single-Molecule Interfacial Electron Transfer Dynamics of Porphyrin on TiO2 Nanoparticles. Journal of the American Chemical Society, 2009, 131, 1479-1487.	6.6	81
72	Single-Molecule Protein Interaction Conformational Dynamics. Current Pharmaceutical Biotechnology, 2009, 10, 522-531.	0.9	10

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73	2D Regional Correlation Analysis of Single-Molecule Time Trajectories. Journal of Physical Chemistry B, 2008, 112, 14920-14926.	1.2	14
74	Chapter 19 Combined Singleâ€Molecule Electrical Recording and Singleâ€Molecule Spectroscopy Studies of Ion Channel Conformational Dynamics. Methods in Cell Biology, 2008, 90, 435-451.	0.5	4
75	Exploring the Mechanism of Flexible Biomolecular Recognition with Single Molecule Dynamics. Physical Review Letters, 2007, 98, 128105.	2.9	60
76	Fluctuating Two-State Light Harvesting in a Photosynthetic Membraneâ€. Journal of Physical Chemistry C, 2007, 111, 8948-8956.	1.5	14
77	Combined Spectroscopic and Topographic Characterization of Nanoscale Domains and Their Distributions of a Redox Protein on Bacterial Cell Surfaces. Langmuir, 2007, 23, 1333-1338.	1.6	51
78	Revealing Two-State Proteinâ^'Protein Interactions of Calmodulin by Single-Molecule Spectroscopy. Journal of the American Chemical Society, 2006, 128, 10034-10042.	6.6	69
79	Single-Molecule Dynamics Reveals Cooperative Binding-Folding in Protein Recognition. PLoS Computational Biology, 2006, 2, e78.	1.5	41
80	Tip-enhanced near-field Raman spectroscopy probing single dye-sensitized TiO2 nanoparticles. Applied Physics Letters, 2006, 88, 093121.	1.5	30
81	Single-Molecule Study of Protein–Protein and Protein–DNA Interaction Dynamics. , 2005, 305, 385-414.		9
82	Site-specific Raman spectroscopy and chemical dynamics of nanoscale interstitial systems. Journal of Physics Condensed Matter, 2005, 17, R333-R355.	0.7	22
83	Probing Single-Molecule Protein Conformational Dynamics. Accounts of Chemical Research, 2005, 38, 557-565.	7.6	89
84	Single-Molecule Triplet-State Photon Antibunching at Room Temperature. Journal of Physical Chemistry B, 2005, 109, 9861-9864.	1.2	17
85	Probing Inhomogeneous Vibrational Reorganization Energy Barriers of Interfacial Electron Transfer. Journal of Physical Chemistry B, 2005, 109, 16390-16395.	1.2	29
86	Single-Molecule Spectroscopy Studies of Conformational Change Dynamics in Enzymatic Reactions. Current Pharmaceutical Biotechnology, 2004, 5, 261-269.	0.9	26
87	Probing ion channel conformational dynamics using simultaneous single-molecule ultrafast spectroscopy and patch-clamp electric recording. Applied Physics Letters, 2004, 84, 1792-1794.	1.5	26
88	Probing nanosecond protein motions of calmodulin by single-molecule fluorescence anisotropy. Applied Physics Letters, 2004, 85, 2420-2422.	1.5	29
89	Correlated atomic force microscopy and fluorescence lifetime imaging of live bacterial cells. Colloids and Surfaces B: Biointerfaces, 2004, 34, 205-212.	2.5	56
90	Finite Element Method Simulations of the Near-Field Enhancement at the Vicinity of Fractal Rough Metallic Surfaces. Journal of Physical Chemistry B, 2004, 108, 2939-2947.	1.2	13

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91	Single-Molecule Study of Proteinâ^'Protein Interaction Dynamics in a Cell Signaling System. Journal of Physical Chemistry B, 2004, 108, 737-744.	1.2	51
92	Intermittent Single-Molecule Interfacial Electron Transfer Dynamics. Journal of the American Chemical Society, 2004, 126, 9374-9381.	6.6	102
93	Placing Single-Molecule T4 Lysozyme Enzymes on a Bacterial Cell Surface: Toward Probing Single-Molecule Enzymatic Reaction in Living Cells. Biophysical Journal, 2004, 87, 656-661.	0.2	33
94	Probing nanoscale surface enhanced Raman-scattering fluctuation dynamics using correlated AFM and confocal ultramicroscopy. Ultramicroscopy, 2003, 97, 89-102.	0.8	47
95	Single-Molecule Nanosecond Anisotropy Dynamics of Tethered Protein Motions. Journal of Physical Chemistry B, 2003, 107, 618-626.	1.2	42
96	Finite Element Method Simulation of the Field Distribution for AFM Tip-Enhanced Surface-Enhanced Raman Scanning Microscopy. Journal of Physical Chemistry B, 2003, 107, 1574-1584.	1.2	129
97	Probing Conformational Changes of Gramicidin Ion Channels by Single-Molecule Patch-Clamp Fluorescence Microscopy. Biophysical Journal, 2003, 85, 1826-1838.	0.2	114
98	Probing Single-Molecule T4 Lysozyme Conformational Dynamics by Intramolecular Fluorescence Energy Transfer. Journal of Physical Chemistry B, 2003, 107, 7947-7956.	1.2	92
99	Correlated topographic and spectroscopic imaging beyond diffraction limit by atomic force microscopy metallic tip-enhanced near-field fluorescence lifetime microscopy. Review of Scientific Instruments, 2003, 74, 3347-3355.	0.6	46
100	Single-Molecule Conformational Dynamics of Fluctuating Noncovalent DNAâ^Protein Interactions in DNA Damage Recognition. Journal of the American Chemical Society, 2001, 123, 9184-9185.	6.6	46
101	Statistical Analyses and Theoretical Models of Single-Molecule Enzymatic Dynamics. Journal of Physical Chemistry A, 1999, 103, 10477-10488.	1.1	130
102	Single-molecule Enzymology. Journal of Biological Chemistry, 1999, 274, 15967-15970.	1.6	235
103	Single-Molecule Spectroscopy Studies of Molecular Dynamics in Chemical and Biological Systems*. Zeitschrift Fur Physikalische Chemie, 1999, 212, 59-66.	1.4	6
104	Single-Molecule Kinetics of Interfacial Electron Transfer. Journal of Physical Chemistry B, 1997, 101, 2753-2757.	1.2	129
105	Single-molecule spectral fluctuations at room temperature. Nature, 1997, 385, 143-146.	13.7	334