Measuring conformational dynamics of biomolecules by spectroscopy

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Citation Report

#	Article	IF	Citations
2	The renaissance of fluorescence resonance energy transfer. , 2000, 7, 730-734.		886
3	Protein folding: progress made and promises ahead. Trends in Biochemical Sciences, 2000, 25, 611-618.	3.7	179
4	RATIOMETRICSINGLE-MOLECULESTUDIES OFFREELYDIFFUSINGBIOMOLECULES. Annual Review of Physical Chemistry, 2001, 52, 233-253.	4.8	195
5	Crystal structure of a protein repair methyltransferase from Pyrococcus furiosus with its l -isoaspartyl peptide substrate 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 2001, 313, 1103-1116.	2.0	55
6	Structural Dynamics of Catalytic RNA Highlighted by Fluorescence Resonance Energy Transfer. Methods, 2001, 25, 19-30.	1.9	67
7	Single-Molecule Fluorescence Resonance Energy Transfer. Methods, 2001, 25, 78-86.	1.9	513
8	Calculation of Rigid-Body Conformational Changes Using Restraint-Driven Cartesian Transformations. Biophysical Journal, 2001, 81, 2530-2546.	0.2	21
9	State of the Arg. Cell, 2001, 106, 5-8.	13.5	414
10	Photophysical Dynamics of Single Molecules Studied by Spectrally-Resolved Fluorescence Lifetime Imaging Microscopy (SFLIM). Journal of Physical Chemistry A, 2001, 105, 7989-8003.	1.1	120
11	A Novel Single-Molecule Study To Determine Proteinâ^'Protein Association Constants. Journal of the American Chemical Society, 2001, 123, 5632-5635.	6.6	116
12	Physikalische Chemie 2000. Nachrichten Aus Der Chemie, 2001, 49, 346-358.	0.0	1
13	Analyzing single protein molecules using optical methods. Current Opinion in Biotechnology, 2001, 12, 382-386.	3.3	28
14	Single Proteins Observed by Atomic Force Microscopy. Single Molecules, 2001, 2, 59-67.	1.7	65
15	Principles of Single Molecule Multiparameter Fluorescence Spectroscopy. Single Molecules, 2001, 2, 251-254.	1.7	104
16	Optical Probing of Single Fluorescent Molecules and Proteins. ChemPhysChem, 2001, 2, 347-360.	1.0	41
17	DNA transport in bacteria. Nature Reviews Molecular Cell Biology, 2001, 2, 538-545.	16.1	116
18	Chromatin silencing protein and pachytene checkpoint regulator Dot1p has a methyltransferase fold. Trends in Biochemical Sciences, 2001, 26, 405-407.	3.7	32
19	Single-molecule fluorescence methods for the study of nucleic acids. Current Opinion in Structural Biology, 2001, 11, 287-292.	2.6	123

#	Article	IF	Citations
20	mRNA:guanine-N7 cap methyltransferases: identification of novel members of the family, evolutionary analysis, homology modeling, and analysis of sequence-structure-function relationships. BMC Bioinformatics, 2001, 2, 2.	1.2	25
21	PRMT5 (Janus Kinase-binding Protein 1) Catalyzes the Formation of Symmetric Dimethylarginine Residues in Proteins. Journal of Biological Chemistry, 2001, 276, 32971-32976.	1.6	323
22	Photon Statistics and Dynamics of Fluorescence Resonance Energy Transfer. Physical Review Letters, 2002, 89, 068101.	2.9	67
23	Mechanical force generation by G proteins. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3575-3580.	3.3	36
24	Yeast Ribosomal Protein L12 Is a Substrate of Protein-arginine Methyltransferase 2. Journal of Biological Chemistry, 2002, 277, 15345-15353.	1.6	54
25	The Novel Human Protein Arginine N-Methyltransferase PRMT6 Is a Nuclear Enzyme Displaying Unique Substrate Specificity. Journal of Biological Chemistry, 2002, 277, 3537-3543.	1.6	288
26	Scanning confocal fluorescence microscopy for single molecule analysis of nucleotide excision repair complexes. Nucleic Acids Research, 2002, 30, 4720-4727.	6.5	28
27	Identification of Protein Arginine Methyltransferase 2 as a Coactivator for Estrogen Receptor Î±. Journal of Biological Chemistry, 2002, 277, 28624-28630.	1.6	142
28	Requirement for Multiple Domains of the Protein Arginine Methyltransferase CARM1 in Its Transcriptional Coactivator Function. Journal of Biological Chemistry, 2002, 277, 46066-46072.	1.6	83
29	Single Molecule Fluorescence Spectroscopy. Journal of the Chinese Chemical Society, 2002, 49, 669-676.	0.8	7
30	Electrophoretic Quantitation of Nucleic Acids without Amplification by Single-Molecule Imaging. Analytical Chemistry, 2002, 74, 5033-5038.	3.2	54
31	Multibasin Dynamics in Off-Lattice Minimalist Protein Landscapesâ€. Journal of Physical Chemistry A, 2002, 106, 10898-10907.	1.1	12
32	High Shape Persistence in Single Polymer Chains Rigidified with Lateral Hydrogen Bonded Networks. Macromolecules, 2002, 35, 5290-5294.	2.2	104
33	Deuterium Spin Probes of Side-Chain Dynamics in Proteins. 1. Measurement of Five Relaxation Rates per Deuteron in 13C-Labeled and Fractionally 2H-Enriched Proteins in Solution. Journal of the American Chemical Society, 2002, 124, 6439-6448.	6.6	180
34	ENZYMOLOGY: A Moving Story. Science, 2002, 295, 1480-1481.	6.0	61
35	Fluorescence correlation spectroscopy: the technique and its applications. Reports on Progress in Physics, 2002, 65, 251-297.	8.1	725
36	Fluorescent probes and bioconjugation chemistries for single-molecule fluorescence analysis of biomolecules. Journal of Chemical Physics, 2002, 117, 10953-10964.	1.2	147
37	Structure and Catalytic Mechanism of a SET Domain Protein Methyltransferase. Cell, 2002, 111, 91-103.	13.5	240

#	Article	IF	Citations
38	Imaging of the fluorescence spectrum of a single fluorescent molecule by prism-based spectroscopy. FEBS Letters, 2002, 512, 235-239.	1.3	17
39	Crystal Structure of Guanidinoacetate Methyltransferase from Rat Liver: A Model Structure of Protein Arginine Methyltransferase. Journal of Molecular Biology, 2002, 320, 223-235.	2.0	29
40	Fluorescence resonance energy transfer (FRET) and competing processes in donorâ€“acceptor substituted DNA strands: a comparative study of ensemble and single-molecule data. Reviews in Molecular Biotechnology, 2002, 82, 211-231.	2.9	120
41	Disruptor of Telomeric Silencing-1 Is a Chromatin-specific Histone H3 Methyltransferase. Journal of Biological Chemistry, 2002, 277, 30421-30424.	1.6	260
42	Quantitating fluorescence intensity from fluorophore: The definition of MESF assignment. Journal of Research of the National Institute of Standards and Technology, 2002, 107, 83.	0.4	89
43	Total Internal Reflection Fluorescence Microscopy for Single-molecule Imaging in Living Cells.. Cell Structure and Function, 2002, 27, 357-365.	0.5	88
44	Observing structure, function and assembly of single proteins by AFM. Progress in Biophysics and Molecular Biology, 2002, 79, 1-43.	1.4	155
45	The Crystal Structure of MT0146/CbiT Suggests that the Putative Precorrin-8w Decarboxylase Is a Methyltransferase. Structure, 2002, 10, 1475-1487.	1.6	44
46	Fluorescence correlation spectroscopy for the detection and study of single molecules in biology. BioEssays, 2002, 24, 758-764.	1.2	159
47	Measuring protein conformational changes by FRET/LRET. Current Opinion in Biotechnology, 2002, 13, 292-296.	3.3	210
48	Single-molecule fluorescence of nucleic acids. Current Opinion in Chemical Biology, 2002, 6, 823-828.	2.8	16
49	Single-molecule spectroscopy and microscopy. Comptes Rendus Physique, 2002, 3, 619-644.	0.3	61
50	Flexibility in monomeric Cu,Zn superoxide dismutase detected by limited proteolysis and molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2002, 47, 513-520.	1.5	20
51	Initiation and re-initiation of DNA unwinding by the Escherichia coli Rep helicase. Nature, 2002, 419, 638-641.	13.7	444
52	Folding plasticity. , 2002, 9, 792-794.		7
53	Dynamics of green fluorescent protein mutant2 in solution, on spin-coated glasses, and encapsulated in wet silica gels. Protein Science, 2002, 11, 1152-1161.	3.1	61
54	LONG-RANGERESONANCEENERGYTRANSFER INMOLECULARSYSTEMS. Annual Review of Physical Chemistry, 2003, 54, 57-87.	4.8	1,063
55	Single-molecule folding. Current Opinion in Structural Biology, 2003, 13, 88-97.	2.6	228

#	Article	IF	Citations
56	Structure of the Predominant Protein Arginine Methyltransferase PRMT1 and Analysis of Its Binding to Substrate Peptides. Structure, 2003, 11, 509-520.	1.6	317
57	Fluorescence Spectroscopy of Single Molecules under Ambient Conditions: Methodology and Technology. ChemPhysChem, 2003, 4, 792-808.	1.0	94
58	Maximum-Likelihood Approach to Single-Molecule Polarization Modulation Analysis. ChemPhysChem, 2003, 4, 1005-1011.	1.0	21
59	Structural dynamics of individual Holliday junctions. Nature Structural Biology, 2003, 10, 93-97.	9.7	311
60	A dimeric viral SET domain methyltransferase specific to Lys27 of histone H3. Nature Structural and Molecular Biology, 2003, 10, 187-196.	3.6	85
61	The Power and Prospects of Fluorescence Microscopies and Spectroscopies. Annual Review of Biophysics and Biomolecular Structure, 2003, 32, 161-182.	18.3	198
62	Influence of Structural Fluctuation on Enzyme Reaction Energy Barriers in Combined Quantum Mechanical/Molecular Mechanical Studies. Journal of Physical Chemistry B, 2003, 107, 4459-4463.	1.2	108
63	Nanosecond Dynamics of Single Polypeptide Molecules Revealed by Photoemission Statistics of Fluorescence Resonance Energy Transfer:Â A Theoretical Study. Journal of Physical Chemistry B, 2003, 107, 5617-5622.	1.2	42
64	Exploration of the Transition State for Tertiary Structure Formation between an RNA Helix and a Large Structured RNA. Journal of Molecular Biology, 2003, 328, 1011-1026.	2.0	96
65	Lighting Up Single Ion Channels. Biophysical Journal, 2003, 84, 1-2.	0.2	80
66	Single Molecule Detection of DNA Looping by NgoMIV Restriction Endonuclease. Biophysical Journal, 2003, 84, 4053-4061.	0.2	30
67	Direct Determination of Kinetic Rates from Single-Molecule Photon Arrival Trajectories Using Hidden Markov Models. Journal of Physical Chemistry A, 2003, 107, 7454-7464.	1.1	127
68	Acetylation and Methylation in Nuclear Receptor Gene Activation. Methods in Enzymology, 2003, 364, 203-223.	0.4	25
69	Multiparameter single-molecule fluorescence spectroscopy reveals heterogeneity of HIV-1 reverse transcriptase:primer/template complexes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1655-1660.	3.3	224
70	Maximum likelihood trajectories from single molecule fluorescence resonance energy transfer experiments. Journal of Chemical Physics, 2003, 119, 9920-9924.	1.2	62
71	Photodestruction Intermediates Probed by an Adjacent Reporter Molecule. Physical Review Letters, 2003, 90, 223002.	2.9	29
72	CHEMISTRY: The Motions of an Enzyme Soloist. Science, 2003, 302, 239-240.	6.0	19
73	A four-way junction accelerates hairpin ribozyme folding via a discrete intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9308-9313.	3.3	207

#	Article	IF	Citations
74	Optical Bioimaging: From Living Tissue to a Single Molecule: Single-Molecule Visualization of Cell Signaling Processes of Epidermal Growth Factor Receptor. Journal of Pharmacological Sciences, 2003, 93, 253-258.	1.1	17
75	Single molecule kinetics. I. Theoretical analysis of indicators. Journal of Chemical Physics, 2004, 121, 6361-6372.	1.2	65
76	Small Molecule Regulators of Protein Arginine Methyltransferases. Journal of Biological Chemistry, 2004, 279, 23892-23899.	1.6	281
77	Biomolecular Motors. Nanostructure Science and Technology, 2004, , 549-574.	0.1	1
78	Proton-powered subunit rotation in single membrane-bound F0F1-ATP synthase. Nature Structural and Molecular Biology, 2004, 11, 135-141.	3.6	392
79	Single-molecule manipulation of nucleic acids. Current Opinion in Structural Biology, 2004, 14, 368-373.	2.6	59
80	The multifunctional plant viral suppressor of gene silencing P19 interacts with itself and an RNA binding host protein. Virology, 2004, 323, 49-58.	1.1	32
81	Simultaneous atomic-force and two-photon fluorescence imaging of biological specimens in vivo. Ultramicroscopy, 2004, 99, 235-245.	0.8	33
82	Near-wall hindered Brownian diffusion of nanoparticles examined by three-dimensional ratiometric total internal reflection fluorescence microscopy (3-D R-TIRFM). Experiments in Fluids, 2004, 37, 811-824.	1.1	129
83	Biofunctionalized Polymer Surfaces Exhibiting Minimal Interaction towards Immobilized Proteins. ChemPhysChem, 2004, 5, 552-555.	1.0	84
84	Exploring molecular motors and switches at the single-molecule level. Microscopy Research and Technique, 2004, 65, 194-204.	1.2	24
85	Single-molecule measurement in living cells. TrAC - Trends in Analytical Chemistry, 2004, 23, 587-594.	5.8	9
86	Electrical detection of single viruses. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14017-14022.	3.3	1,208
87	Single Molecule Acid-Base Kinetics and Thermodynamics. Physical Review Letters, 2004, 93, 073004.	2.9	6
88	Probing Structural Dynamics of Individual Calmodulin:Peptide Complexes in Hydrogels by Single-Molecule Confocal Microscopy. Journal of Physical Chemistry B, 2004, 108, 15910-15918.	1.2	20
89	A Method for Connecting Solution-Phase Enzyme Activity Assays with Immobilized Format Analysis by Mass Spectrometry. Analytical Chemistry, 2004, 76, 3923-3929.	3.2	59
90	Biocompatible Surfaces for Specific Tethering of Individual Protein Molecules. Journal of Physical Chemistry B, 2004, 108, 13387-13394.	1.2	84
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

#	Article	IF	Citations
92	Biofunctionalized, Ultrathin Coatings of Cross-Linked Star-Shaped Poly(ethylene oxide) Allow Reversible Folding of Immobilized Proteins. Journal of the American Chemical Society, 2004, 126, 4234-4239.	6.6	191
93	Freely Diffusing Single Hairpin Ribozymes Provide Insights into the Role of Secondary Structure and Partially Folded States in RNA Folding. Biophysical Journal, 2004, 87, 457-467.	0.2	45
94	Bayesian Estimation for Species Identification in Single-Molecule Fluorescence Microscopy. Biophysical Journal, 2004, 86, 3409-3422.	0.2	16
95	Single-Molecule Three-Color FRET. Biophysical Journal, 2004, 87, 1328-1337.	0.2	320
96	Single-Molecule Spectroscopy Selectively Probes Donor and Acceptor Chromophores in the Phycobiliprotein Allophycocyanin. Biophysical Journal, 2004, 87, 2598-2608.	0.2	55
97	Structure of the Q237W mutant of HhaI DNA methyltransferase: an insight into protein-protein interactions. Biological Chemistry, 2004, 385, 373-379.	1.2	10
98	Near-Complete Suppression of Quantum Dot Blinking in Ambient Conditions. Journal of the American Chemical Society, 2004, 126, 1324-1325.	6.6	485
99	Exploring Rare Conformational Species and Ionic Effects in DNA Holliday Junctions Using Single-molecule Spectroscopy. Journal of Molecular Biology, 2004, 341, 739-751.	2.0	111
100	Single-molecule orientations determined by direct emission pattern imaging. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1210.	0.9	358
101	Long-Time Conformational Transitions of Alanine Dipeptide in Aqueous Solution:Â Continuous and Discrete-State Kinetic Models. Journal of Physical Chemistry B, 2004, 108, 19487-19495.	1.2	78
102	Colocalization and FRET-analysis of subunits c and a of the vacuolar H+-ATPase in living plant cells. Journal of Biotechnology, 2004, 112, 165-175.	1.9	56
103	Fluorescence studies of single biomolecules. Biochemical Society Transactions, 2004, 32, 753-756.	1.6	13
104	Chapter 21 Single molecule nano-bioscience. Handai Nanophotonics, 2004, 1, 347-357.	0.0	0
105	Self-reporting Biological Nano-systems To Study And Control Bio-molecular Mechanisms On The Single Molecule Level (BIOSCOPE). Materials Technology, 2005, 20, 32-35.	1.5	0
106	Ribosomal protein S2 is a substrate for mammalian PRMT3 (protein arginine methyltransferase 3). Biochemical Journal, 2005, 386, 85-91.	1.7	146
107	A fluorescence resonance energy transfer-based probe to monitor nucleosome structure. Analytical Biochemistry, 2005, 341, 165-172.	1.1	19
108	Protein-protein interactions as a tool for site-specific labeling of proteins. Protein Science, 2005, 14, 2059-2068.	3.1	40
109	Visualizing and manipulating individual protein molecules. Physiological Measurement, 2005, 26, R119-R153.	1.2	40

#	Article	IF	Citations
110	Bayesian analysis of single-molecule experimental data (with discussion). Journal of the Royal Statistical Society Series C: Applied Statistics, 2005, 54, 469-506.	0.5	64
111	Three-Color Single-Molecule Fluorescence Resonance Energy Transfer. ChemPhysChem, 2005, 6, 74-77.	1.0	110
112	Single-Molecule Quantum-Dot Fluorescence Resonance Energy Transfer. ChemPhysChem, 2005, 6, 956-960.	1.0	155
113	Statistical Evaluation of Single Nano-Object Fluorescence. ChemPhysChem, 2005, 6, 770-789.	1.0	129
114	High-Resolution Colocalization of Single Molecules within the Resolution Gap of Far-Field Microscopy. ChemPhysChem, 2005, 6, 949-955.	1.0	25
115	Branching Out of Singleâ€Molecule Fluorescence Spectroscopy: Challenges for Chemistry and Influence on Biology. Angewandte Chemie - International Edition, 2005, 44, 2642-2671.	7.2	232
117	Nanowire nanosensors. Materials Today, 2005, 8, 20-28.	8.3	667
118	A microscopic view of miniprotein folding: Enhanced folding efficiency through formation of an intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16650-16655.	3.3	173
119	Efficient fluorescence labeling of a large RNA through oligonucleotide hybridization. Rna, 2005, 11, 234-239.	1.6	36
120	Memory in quantum-dot photoluminescence blinking. New Journal of Physics, 2005, 7, 197-197.	1.2	55
121	Studying 3D Subdomains of Proteins at the Nanometer Scale Using Fluorescence Spectroscopy. , 2005, 300, 165-190.		4
122	Quantification of photoinduced and spontaneous quantum-dot luminescence blinking. Physical Review B, 2005, 72, .	1.1	50
123	Long time scale blinking kinetics of cyanine fluorophores conjugated to DNA and its effect on FÃ¶rster resonance energy transfer. Journal of Chemical Physics, 2005, 123, 224708.	1.2	81
124	Using fluorescence resonance energy transfer to measure distances along individual DNA molecules: Corrections due to nonideal transfer. Journal of Chemical Physics, 2005, 122, 061103.	1.2	91
125	Histone-Modifying Complexes Regulate Gene Expression Pertinent to the Differentiation of the Protozoan Parasite Toxoplasma gondii. Molecular and Cellular Biology, 2005, 25, 10301-10314.	1.1	172
126	PRMT8, a New Membrane-bound Tissue-specific Member of the Protein Arginine Methyltransferase Family. Journal of Biological Chemistry, 2005, 280, 32890-32896.	1.6	208
127	Rotation of DNA around intact strand in human topoisomerase I implies distinct mechanisms for positive and negative supercoil relaxation. Nucleic Acids Research, 2005, 33, 6621-6634.	6.5	27
128	Structural and Sequence Motifs of Protein (Histone) Methylation Enzymes. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 267-294.	18.3	305

#	Article	IF	Citations
129	Single-Molecule RNA Science. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 399-414.	18.3	151
130	Large-area avalanche diodes for picosecond time-correlated photon counting. , 0, , .		16
131	Surfaces and Orientations:â€‰ Much to FRET about?. Accounts of Chemical Research, 2005, 38, 542-548.	7.6	146
132	Imaging of Tautomerism in a Single Molecule. Journal of the American Chemical Society, 2005, 127, 5302-5303.	6.6	74
133	Single-Molecule RNA Folding. Accounts of Chemical Research, 2005, 38, 566-573.	7.6	98
134	Single Polymer Chains as Specific Transducers of Molecular Recognition in Scanning Probe Microscopy. Journal of the American Chemical Society, 2005, 127, 11390-11398.	6.6	14
135	Fractalkine Targeting with a Receptor-Mimicking Peptide-Amphiphile. Biomacromolecules, 2005, 6, 1272-1279.	2.6	12
136	Sampling Unfolding Intermediates in Calmodulin by Single-Molecule Spectroscopy. Journal of the American Chemical Society, 2005, 127, 12107-12114.	6.6	26
137	A Computational Study of the Correlations between Structure and Dynamics in Free and Surface-Immobilized Single Polymer Chains. Journal of Physical Chemistry B, 2005, 109, 16340-16349.	1.2	11
138	Alternating-Laser Excitation of Single Molecules. Accounts of Chemical Research, 2005, 38, 523-533.	7.6	335
139	Four-color fluorescence correlation spectroscopy realized in a grating-based detection platform. Optics Letters, 2005, 30, 2266.	1.7	37
140	Arginine Methylation. Molecular Cell, 2005, 18, 263-272.	4.5	1,002
141	Multimerization of expressed protein-arginine methyltransferases during the growth and differentiation of rat liver. Biochimica Et Biophysica Acta - General Subjects, 2005, 1723, 240-247.	1.1	36
142	Accurate FRET Measurements within Single Diffusing Biomolecules Using Alternating-Laser Excitation. Biophysical Journal, 2005, 88, 2939-2953.	0.2	440
143	Single-Molecule Enzymology of Chymotrypsin Using Water-in-Oil Emulsion. Biophysical Journal, 2005, 88, 4303-4311.	0.2	32
144	A Novel Immobilization Method for Single Protein spFRET Studies. Biophysical Journal, 2005, 89, L11-L13.	0.2	20
145	Tracking Unfolding and Refolding of Single GFPmut2 Molecules. Biophysical Journal, 2005, 89, 2033-2045.	0.2	31
146	Calibration of Dynamic Molecular Rulers Based on Plasmon Coupling between Gold Nanoparticles. Nano Letters, 2005, 5, 2246-2252.	4.5	539

#	Article	IF	Citations
147	Nanometal Surface Energy Transfer in Optical Rulers, Breaking the FRET Barrier. Journal of the American Chemical Society, 2005, 127, 3115-3119.	6.6	714
148	Short-Range Spectroscopic Ruler Based on a Single-Molecule Optical Switch. Physical Review Letters, 2005, 94, 108101.	2.9	308
149	Single-Molecule Fluorescence Studies of Protein Folding and Conformational Dynamics. Chemical Reviews, 2006, 106, 1785-1813.	23.0	488
150	Nanoscopic Architecture and Microstructure. , 2006, , 153-227.		0
151	Subunit movements in membrane-integrated EF0F1 during ATP synthesis detected by single-molecule spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 311-319.	0.5	46
152	Scanning-probe Raman spectroscopy with single-molecule sensitivity. Physical Review B, 2006, 73, .	1.1	225
153	Relating Protein Motion to Catalysis. Annual Review of Biochemistry, 2006, 75, 519-541.	5.0	565
154	The arginine methyltransferase PRMT2 binds RB and regulates E2F function. Experimental Cell Research, 2006, 312, 2040-2053.	1.2	70
155	Determination of the Orientational Distribution and Orientation Factor for Transfer between Membrane-Bound Fluorophores using a Confocal Microscope. Biophysical Journal, 2006, 91, 1032-1045.	0.2	50
156	Information Theoretical Approach to Single-Molecule Experimental Design and Interpretation. Journal of Physical Chemistry A, 2006, 110, 9743-9757.	1.1	18
157	A New Photostable Terrylene Diimide Dye for Applications in Single Molecule Studies and Membrane Labeling. Journal of the American Chemical Society, 2006, 128, 5283-5291.	6.6	125
158	An NMR Perspective on Enzyme Dynamics. Chemical Reviews, 2006, 106, 3055-3079.	23.0	424
159	Single-Molecule Detection. , 2006, , 757-795.		2
160	Friction between Cellulose Surfaces and Effect of Xyloglucan Adsorption. Biomacromolecules, 2006, 7, 2147-2153.	2.6	63
161	Testing for Renewal and Detailed Balance Violations in Single-Molecule Blinking Processesâ€. Journal of Physical Chemistry B, 2006, 110, 19009-19017.	1.2	13
162	Nanotools for Megaproblems:â€‰ Probing Protein Misfolding Diseases Using Nanomedicine Modus Operandi. Journal of Proteome Research, 2006, 5, 2505-2522.	1.8	27
163	Shot-Noise Limited Single-Molecule FRET Histograms:Â Comparison between Theory and Experimentsâ€. Journal of Physical Chemistry B, 2006, 110, 22103-22124.	1.2	301
164	FBXO11/PRMT9, a new protein arginine methyltransferase, symmetrically dimethylates arginine residues. Biochemical and Biophysical Research Communications, 2006, 342, 472-481.	1.0	119

#	Article	IF	Citations
165	Two Distinct Binding Modes of a Protein Cofactor with its Target RNA. Journal of Molecular Biology, 2006, 361, 771-784.	2.0	53
166	Single-Molecule Biology: What Is It and How Does It Work?. Molecular Cell, 2006, 24, 317-329.	4.5	86
167	Imaging and detecting molecular interactions of single transmembrane proteins. Neurobiology of Aging, 2006, 27, 546-561.	1.5	38
168	Blinking fluorophores: what do they tell us about protein dynamics?. Biochemical Society Transactions, 2006, 34, 979-982.	1.6	45
169	Development of an ultrafast single photon counting imager for single molecule imaging. , 2006, 6092, 168.		5
170	4 Structure of protein arginine methyltransferases. The Enzymes, 2006, 24, 105-121.	0.7	3
171	Protein arginine methylation: Cellular functions and methods of analysis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1890-1903.	1.1	210
172	Single molecule fluorescence studies of surface-adsorbed fibronectin. Biomaterials, 2006, 27, 679-690.	5.7	35
173	Covalent immobilization of epidermal growth factor molecules for single-molecule imaging analysis of intracellular signaling. Biomaterials, 2006, 27, 3343-3350.	5.7	33
174	Folding of the Adenine Riboswitch. Chemistry and Biology, 2006, 13, 857-868.	6.2	255
175	Site-specific labeling of proteins for single-molecule FRET by combining chemical and enzymatic modification. Protein Science, 2006, 15, 640-646.	3.1	54
176	Unfolding time distribution of GFP by single molecule fluorescence spectroscopy. European Biophysics Journal, 2006, 35, 663-674.	1.2	7
177	Protein flexibility: its role in structure and mechanism revealed by molecular simulations. Cellular and Molecular Life Sciences, 2006, 63, 207-219.	2.4	45
178	Biomolecular engineering at interfaces. Chemical Engineering Science, 2006, 61, 989-1003.	1.9	52
179	Materials for Fluorescence Resonance Energy Transfer Analysis: Beyond Traditional Donorâ€“Acceptor Combinations. Angewandte Chemie - International Edition, 2006, 45, 4562-4589.	7.2	1,383
180	Exploring Protein Structure and Dynamics under Denaturing Conditions by Single-Molecule FRET Analysis. Macromolecular Bioscience, 2006, 6, 907-922.	2.1	41
181	Improving autofluorescent proteins: Comparative studies of the effective brightness of Green Fluorescent Protein (GFP) mutants. Microscopy Research and Technique, 2006, 69, 175-185.	1.2	25
183	Local Structure Comparison of Proteins. Advances in Computers, 2006, 68, 177-251.	1.2	1

#	Article	IF	Citations
184	1 Protein Methyltransferases: Their Distribution Among the Five Structural Classes of AdoMet-Dependent Methyltransferases. The Enzymes, 2006, 24, 3-28.	0.7	17
185	Detection of protein conformational change by optical second-harmonic generation. Journal of Chemical Physics, 2006, 125, 074701.	1.2	37
186	2 The family of protein arginine metkyltransferases. The Enzymes, 2006, 24, 31-50.	0.7	7
187	Real-time Enzyme Dynamics Illustrated with Fluorescence Spectroscopy of p-Hydroxybenzoate Hydroxylase. Journal of Biological Chemistry, 2006, 281, 11074-11081.	1.6	21
188	Comparing the quantification of Foì rster resonance energy transfer measurement accuracies based on intensity, spectral, and lifetime imaging. Journal of Biomedical Optics, 2006, 11, 034017.	1.4	76
189	A Novel Developed Detection and Analysis Method of DNA Microarray Hybridization Using FRET technique. , 2007, , .		0
190	Dissecting the multistep reaction pathway of an RNA enzyme by single-molecule kinetic "fingerprinting". Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12634-12639.	3.3	81
191	Alternative Splicing Yields Protein Arginine Methyltransferase 1 Isoforms with Distinct Activity, Substrate Specificity, and Subcellular Localization. Journal of Biological Chemistry, 2007, 282, 33009-33021.	1.6	156
192	Ultrasensitive Fluorescence Microscopy Studies of Protein Interactions with Functionalized Surfaces. Zeitschrift Fur Physikalische Chemie, 2007, 221, 75-93.	1.4	3
193	Surface-Scanning Mutational Analysis of Protein Arginine Methyltransferase 1: Roles of Specific Amino Acids in Methyltransferase Substrate Specificity, Oligomerization, and Coactivator Function. Molecular Endocrinology, 2007, 21, 1381-1393.	3.7	40
194	Object localization with 10nm accuracy by x-ray phase contrast projection imaging. Applied Physics Letters, 2007, 91, .	1.5	6
195	Unique laser-scanning optical microscope for low-temperature imaging and spectroscopy. Review of Scientific Instruments, 2007, 78, 083701.	0.6	14
196	High-rate photon counting and picosecond timing with silicon-SPAD based compact detector modules. Journal of Modern Optics, 2007, 54, 225-237.	0.6	34
197	Detectors for single-molecule fluorescence imaging and spectroscopy. Journal of Modern Optics, 2007, 54, 239-281.	0.6	110
198	How single molecule detection measures the dynamic actions of life. HFSP Journal, 2007, 1, 15-29.	2.5	11
199	Use of plasmon coupling to reveal the dynamics of DNA bending and cleavage by single EcoRV restriction enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2667-2672.	3.3	268
200	Nanodevices for Single Molecule Studies. , 2007, , 271-301.		3
201	Protein Arginine Methyltransferases: from Unicellular Eukaryotes to Humans. Eukaryotic Cell, 2007, 6, 889-898.	3.4	109

#	Article	IF	Citations
202	Phosphorylation-mediated inactivation of coactivator-associated arginine methyltransferase 1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12318-12323.	3.3	85
203	Ribosomal Protein rpS2 Is Hypomethylated in PRMT3-deficient Mice. Journal of Biological Chemistry, 2007, 282, 16917-16923.	1.6	117
204	Protein Arginine Methylation in Candida albicans: Role in Nuclear Transport. Eukaryotic Cell, 2007, 6, 1119-1129.	3.4	32
206	Probing conformational dynamics in biopolymers by contact-induced fluorescence quenching. Handai Nanophotonics, 2007, , 93-114.	0.0	0
207	Identification and characterization of two closely related histone H4 arginine 3 methyltransferases in Arabidopsis thaliana. Biochemical Journal, 2007, 408, 113-121.	1.7	36
208	Homebuilt single-molecule scanning confocal fluorescence microscope studies of single DNA/protein interactions. Methods, 2007, 41, 342-352.	1.9	8
209	Small Molecule Inhibitors of Histone Arginine Methyltransferases:â€‰ Homology Modeling, Molecular Docking, Binding Mode Analysis, and Biological Evaluations. Journal of Medicinal Chemistry, 2007, 50, 1241-1253.	2.9	98
210	Molecular characterisation and inductive expression of a fish protein arginine methyltransferase 1 gene in response to virus infection. Fish and Shellfish Immunology, 2007, 22, 380-393.	1.6	7
211	A dynamical study of antibodyâ€“antigen encounter reactions. Physical Biology, 2007, 4, 172-180.	0.8	20
212	Engineered Holliday Junctions as Single-Molecule Reporters for Proteinâ^'DNA Interactions with Application to a MerR-Family Regulator. Journal of the American Chemical Society, 2007, 129, 12461-12467.	6.6	22
213	Measuring Conformational Dynamics:Â A New FCS-FRET Approach. Journal of Physical Chemistry B, 2007, 111, 7392-7400.	1.2	124
214	A 10-Ã… Spectroscopic Ruler Applied to Short Polyprolines. Journal of the American Chemical Society, 2007, 129, 9762-9772.	6.6	87
215	How Solvent Controls Electronic Energy Transfer and Light Harvesting:â€‰ Toward a Quantum-Mechanical Description of Reaction Field and Screening Effects. Journal of Physical Chemistry B, 2007, 111, 13253-13265.	1.2	117
216	Computational Study of a Single Surface-Immobilized Two-Stranded Coiled-Coil Polypeptide. Journal of Physical Chemistry B, 2007, 111, 4178-4188.	1.2	4
217	Extracting the Time Scales of Conformational Dynamics from Single-Molecule Single-Photon Fluorescence Statistics. Journal of Physical Chemistry B, 2007, 111, 4220-4226.	1.2	6
218	Monitoring Kinetics of Highly Environment Sensitive States of Fluorescent Molecules by Modulated Excitation and Time-Averaged Fluorescence Intensity Recording. Analytical Chemistry, 2007, 79, 3330-3341.	3.2	71
219	Single-Molecule Fluorescence Resonance Energy Transfer in Nanopipets:â€‰ Improving Distance Resolution and Concentration Range. Analytical Chemistry, 2007, 79, 7367-7375.	3.2	31
220	High-Resolution, Single-Molecule Measurements of Biomolecular Motion. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 171-190.	18.3	425

#	Article	IF	Citations
221	Measuring the Folding Transition Time of Single RNA Molecules. Biophysical Journal, 2007, 92, 3275-3283.	0.2	44
222	Rapid Membrane Fusion of Individual Virus Particles with Supported Lipid Bilayers. Biophysical Journal, 2007, 93, 526-538.	0.2	78
223	Kinetics of Complexin Binding to the SNARE Complex: Correcting Single Molecule FRET Measurements for Hidden Events. Biophysical Journal, 2007, 93, 2178-2187.	0.2	48
224	How Solvent Controls Electronic Energy Transfer and Light Harvesting. Journal of Physical Chemistry B, 2007, 111, 6978-6982.	1.2	167
225	Phycoremediation of Heavy Metals Using Transgenic Microalgae. Advances in Experimental Medicine and Biology, 2007, 616, 99-109.	0.8	53
227	Carbon Nanotube Field-Effect-Transistor-Based Biosensors. Advanced Materials, 2007, 19, 1439-1451.	11.1	726
228	Circumvention of Fluorophore Photobleaching in Fluorescence Fluctuation Experiments: a Beam Scanning Approach. ChemPhysChem, 2007, 8, 834-848.	1.0	26
229	Visualizing chemical interactions in life sciences with wide-field fluorescence microscopy towards the single-molecule level. TrAC - Trends in Analytical Chemistry, 2007, 26, 980-992.	5.8	12
230	Single molecule FRET for the study on structural dynamics of biomolecules. BioSystems, 2007, 88, 243-250.	0.9	16
231	Single-pair fluorescence resonance energy transfer of nucleosomes in free diffusion: Optimizing stability and resolution of subpopulations. Analytical Biochemistry, 2007, 368, 193-204.	1.1	38
232	Single molecule fluorescence detection of BODIPY-FL molecules for monitoring protein synthesis. Journal of Luminescence, 2007, 127, 264-268.	1.5	15
233	Fluorescence-Emission Control of Single CdSe Nanocrystals Using Gold-Modified AFM Tips. Small, 2007, 3, 44-49.	5.2	28
234	Functional insights from structures of coactivator-associated arginine methyltransferase 1 domains. EMBO Journal, 2007, 26, 4391-4401.	3.5	131
235	Insights into histone code syntax from structural and biochemical studies of CARM1 methyltransferase. EMBO Journal, 2007, 26, 4402-4412.	3.5	117
236	Primers on chromatin. Nature Structural and Molecular Biology, 2007, 14, 1110-1115.	3.6	34
237	Methylation of proteins involved in translation. Molecular Microbiology, 2007, 65, 590-606.	1.2	126
238	Protein arginine methyltransferases: Evolution and assessment of their pharmacological and therapeutic potential. , 2007, 113, 50-87.		249
239	Environment effects on the oscillatory unfolding kinetics of GFP. European Biophysics Journal, 2007, 36, 795-803.	1.2	5

#	Article	IF	Citations
240	Assembly of CdSe/ZnS nanocrystals on microwires and nanowires for temperature sensing. Sensors and Actuators B: Chemical, 2008, 130, 175-180.	4.0	3
241	Unstructured intermediate states in single protein force experiments. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1145-1155.	1.5	1
242	The Complex Inter-Relationships Between Protein Flexibility and Stability. Journal of Pharmaceutical Sciences, 2008, 97, 3494-3517.	1.6	99
243	Sequenceâ€Based Identification of Specific Drug Target Regions in the Thymidylate Synthase Enzyme Family. ChemMedChem, 2008, 3, 392-401.	1.6	14
244	Luminescence Resonance Energy Transfer Sensors Based on the Assemblies of Oppositely Charged Lanthanide/Gold Nanoparticles in Aqueous Solution. Chemistry - an Asian Journal, 2008, 3, 1857-1864.	1.7	26
245	Translation at the Single-Molecule Level. Annual Review of Biochemistry, 2008, 77, 177-203.	5.0	117
246	Highly inclined thin illumination enables clear single-molecule imaging in cells. Nature Methods, 2008, 5, 159-161.	9.0	1,109
247	Mapping the Polarization Pattern of Plasmon Modes Reveals Nanoparticle Symmetry. Nano Letters, 2008, 8, 2345-2350.	4.5	65
248	Structure, Dynamics, and Branch Migration of a DNA Holliday Junction: A Single-Molecule Fluorescence and Modeling Study. Biophysical Journal, 2008, 95, 4372-4383.	0.2	23
249	Single-molecule biophysics: at the interface of biology, physics and chemistry. Journal of the Royal Society Interface, 2008, 5, 15-45.	1.5	263
250	Au Nanoparticle-Based Surface Energy Transfer Probe for Conformational Changes of BSA Protein. Journal of Physical Chemistry C, 2008, 112, 17945-17951.	1.5	123
251	Label-Free Detection of Single Protein Molecules and Proteinâ^'Protein Interactions Using Synthetic Nanopores. Analytical Chemistry, 2008, 80, 4651-4658.	3.2	165
252	Applications of Fluorescence Correlation Spectroscopy to the Study of Nucleic Acid Conformational Dynamics. Progress in Molecular Biology and Translational Science, 2008, 82, 33-69.	1.9	11
253	The F-techniques: advances in receptor protein studies. Trends in Endocrinology and Metabolism, 2008, 19, 181-190.	3.1	31
254	Determination of the three-dimensional orientation of single molecules. Optics Letters, 2008, 33, 1020.	1.7	32
255	Single molecule conformational analysis of DNA G-quadruplexes. Biochimie, 2008, 90, 1197-1206.	1.3	31
256	PRMT3 inhibits ubiquitination of ribosomal protein S2 and together forms an active enzyme complex. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 1062-1069.	1.1	37
257	Dynamics of an anti-VEGF DNA aptamer: A single-molecule study. Biochemical and Biophysical Research Communications, 2008, 373, 213-218.	1.0	36

#	Article	IF	Citations
258	Does FÃ¶rster Theory Predict the Rate of Electronic Energy Transfer for a Model Dyad at Low Temperature?. Journal of Physical Chemistry B, 2008, 112, 3759-3766.	1.2	65
259	Kinetic Mechanism of Protein Arginine Methyltransferase 1. Biochemistry, 2008, 47, 10420-10427.	1.2	67
260	Electrostatic Doping-Induced Phonon Shift of Metallic Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 20118-20122.	1.5	6
261	Strategy for Efficient Site-Specific FRET-Dye Labeling of Ubiquitin. Bioconjugate Chemistry, 2008, 19, 1124-1126.	1.8	10
262	Analysis of the Entire Sequence of a Single Photon Experiment on a Flavin Protein. Journal of Physical Chemistry B, 2008, 112, 5988-5996.	1.2	23
263	Visualizing myosinâ€“actin interaction with a genetically-encoded fluorescent strain sensor. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16882-16887.	3.3	52
264	Human T-Cell Lymphotropic Virus Type 1 Nucleocapsid Protein-Induced Structural Changes in Transactivation Response DNA Hairpin Measured by Single-Molecule Fluorescence Resonance Energy Transfer. Journal of Virology, 2008, 82, 12164-12171.	1.5	19
265	Sorting out the role of reactive oxygen species during plant programmed cell death induced by ultraviolet-C overexposure. Plant Signaling and Behavior, 2008, 3, 197-198.	1.2	7
266	Stochastic Networks in Nanoscale Biophysics. Journal of the American Statistical Association, 2008, 103, 961-975.	1.8	14
267	Promiscuous Modification of the Nuclear Poly(A)-binding Protein by Multiple Protein-arginine Methyltransferases Does Not Affect the Aggregation Behavior. Journal of Biological Chemistry, 2008, 283, 20408-20420.	1.6	41
268	A Kinetic Study of Human Protein Arginine N-Methyltransferase 6 Reveals a Distributive Mechanism. Journal of Biological Chemistry, 2008, 283, 10015-10025.	1.6	71
269	Two-dimensional fluorescence resonance energy transfer as a probe for protein folding: A theoretical study. Journal of Chemical Physics, 2008, 128, 115102.	1.2	9
270	An experimentally guided umbrella sampling protocol for biomolecules. Journal of Chemical Physics, 2008, 129, 114101.	1.2	23
271	Advanced optical spectroscopies in nanotechnology. , 2008, , 61-141.		0
272	Chapter 6 Fourier Imaging Correlation Spectroscopy for Cellular Structureâ€“Function. Methods in Cell Biology, 2008, 90, 117-137.	0.5	2
273	Directionally negative friction: A method for enhanced sampling of rare event kinetics. Journal of Chemical Physics, 2008, 128, 114112.	1.2	16
274	Quantum mechanical methods applied to excitation energy transfer: A comparative analysis on excitation energies and electronic couplings. Journal of Chemical Physics, 2008, 129, 034104.	1.2	54
275	Single dye molecule laser via energy transfer mechanism. Proceedings of SPIE, 2008, , .	0.8	0

#	Article	IF	Citations
276	Stochastic modeling in nanoscale biophysics: Subdiffusion within proteins. Annals of Applied Statistics, 2008, 2, .	0.5	147
277	Nanofluidic Devices for Single Molecule Identification. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 531-536.	0.1	2
278	Single molecule measurement of the "speed limit" of DNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20294-20299.	3.3	65
279	Ensemble inequivalence in single-molecule experiments. Physical Review E, 2009, 79, 051118.	0.8	26
280	Mapping RNA exit channel on transcribing RNA polymerase II by FRET analysis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 127-132.	3.3	35
281	Type I Arginine Methyltransferases PRMT1 and PRMT-3 Act Distributively. Journal of Biological Chemistry, 2009, 284, 8274-8282.	1.6	41
282	Role of pICLn in Methylation of Sm Proteins by PRMT5. Journal of Biological Chemistry, 2009, 284, 21347-21359.	1.6	67
283	A Type III Protein Arginine Methyltransferase from the Protozoan Parasite Trypanosoma brucei. Journal of Biological Chemistry, 2009, 284, 11590-11600.	1.6	49
284	The effect of surface tethering on the folding of the src-SH3 protein domain. Physical Biology, 2009, 6, 015004.	0.8	22
285	Minireview: Protein Arginine Methylation of Nonhistone Proteins in Transcriptional Regulation. Molecular Endocrinology, 2009, 23, 425-433.	3.7	187
286	Plant caspase-like proteases in plant programmed cell death. Plant Signaling and Behavior, 2009, 4, 902-904.	1.2	29
287	Characterization of PRMT1 from Plasmodium falciparum. Biochemical Journal, 2009, 421, 107-118.	1.7	49
288	Chapter 9 Protein Arginine Methyltransferases. Progress in Molecular Biology and Translational Science, 2009, 87, 299-342.	0.9	15
289	On the interactions between molecules in an off-resonant laser beam: Evaluating the response to energy migration and optically induced pair forces. Journal of Chemical Physics, 2009, 130, 034504.	1.2	10
290	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
291	Real-Time Detection of Caspase-3-Like Protease Activation in Vivo Using Fluorescence Resonance Energy Transfer during Plant Programmed Cell Death Induced by Ultraviolet C Overexposure. Plant Physiology, 2009, 150, 1773-1783.	2.3	59
292	NO sparks off chromatin: Tales of a multifaceted epigenetic regulator. , 2009, 123, 344-352.		69
294	Photophysics of New Waterâ€Soluble Terrylenediimide Derivatives and Applications in Biology. ChemPhysChem, 2009, 10, 180-190.	1.0	44

#	Article	IF	Citations
295	A Pyrrolysine Analogue for Protein Click Chemistry. Angewandte Chemie - International Edition, 2009, 48, 1633-1635.	7.2	107
296	A Photostable, pH-Invariant Fluorescein Derivative for Single-Molecule Microscopy. Journal of Fluorescence, 2009, 19, 915-920.	1.3	31
297	A selective view of stochastic inference and modeling problems in nanoscale biophysics. Science in China Series A: Mathematics, 2009, 52, 1181-1211.	0.5	5
298	The protein arginine methyltransferase family: an update about function, new perspectives and the physiological role in humans. Cellular and Molecular Life Sciences, 2009, 66, 2109-2121.	2.4	183
299	Structural features and dynamics of a coldâ€adapted alkaline phosphatase studied by EPR spectroscopy. FEBS Journal, 2009, 276, 2725-2735.	2.2	13
300	Single-molecule fluorescence studies of RNA: A decadeâ€™s progress. Chemical Physics Letters, 2009, 476, 1-10.	1.2	22
301	Single Molecule Spectroscopy Reveals Heterogeneous Transport Mechanisms for Molecular Ions in a Polyelectrolyte Polymer Brush. Journal of Physical Chemistry B, 2009, 113, 14611-14618.	1.2	33
302	Excited States of DNA Base Pairs Using Long-Range Corrected Time-Dependent Density Functional Theory. Journal of Physical Chemistry A, 2009, 113, 9761-9765.	1.1	64
303	Electronic Energy Transfer in Condensed Phase Studied by a Polarizable QM/MM Model. Journal of Chemical Theory and Computation, 2009, 5, 1838-1848.	2.3	259
304	HIV-1 Nucleocapsid Protein Bends Double-Stranded Nucleic Acids. Journal of the American Chemical Society, 2009, 131, 15534-15543.	6.6	16
305	Quantitative Fluorescence Correction Incorporating FÃ¶rster Resonance Energy Transfer and Its Use for Measurement of Hybridization Efficiency on Microarrays. Analytical Chemistry, 2009, 81, 1426-1432.	3.2	7
306	Dynamic Linear Response Theory for Conformational Relaxation of Proteins. Journal of Physical Chemistry B, 2009, 113, 10859-10869.	1.2	14
307	Reversible Immobilization of Diffusive Membrane-Associated Proteins Using a Liquidâ^'Gel Bilayer Phase Transition: A Case Study of Annexin V Monomers. Langmuir, 2009, 25, 3083-3088.	1.6	6
308	I. Conformational Dynamics of Biological Macromolecules by Polarization-Modulated Fourier Imaging Correlation Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 6847-6853.	1.2	2
309	Nanometer Distance Measurements between Multicolor Quantum Dots. Nano Letters, 2009, 9, 2199-2205.	4.5	23
310	Chemical mechanisms of histone lysine and arginine modifications. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 45-57.	0.9	314
311	Functional connection between histone acetyltransferase Gcn5p and methyltransferase Hmt1p. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 395-402.	0.9	12
312	Quantitative Transcription Factor Binding Kinetics at the Single-Molecule Level. Biophysical Journal, 2009, 96, 609-620.	0.2	56

#	Article	IF	Citations
313	Mitigating Unwanted Photophysical Processes for Improved Single-Molecule Fluorescence Imaging. Biophysical Journal, 2009, 96, 2371-2381.	0.2	192
314	The physiological and pathophysiological role of PRMT1-mediated protein arginine methylation. Pharmacological Research, 2009, 60, 466-474.	3.1	109
315	Single-Sized CdSe Nanocrystals with Bandgap Photoemission via a Noninjection One-Pot Approach. Journal of Physical Chemistry C, 2009, 113, 3390-3401.	1.5	67
316	Polarized Spectroscopy Studies of Single Molecules of Porphycenes: Tautomerism and Orientation. Journal of Physical Chemistry C, 2009, 113, 11514-11519.	1.5	45
317	Probing Protein Conformations by in Situ Non-Covalent Fluorescence Labeling. Bioconjugate Chemistry, 2009, 20, 41-46.	1.8	22
318	Extracting Kinetics Information from Single-Molecule Fluorescence Resonance Energy Transfer Data Using Hidden Markov Models. Journal of Physical Chemistry B, 2009, 113, 11535-11542.	1.2	63
319	Probing nanosecond motions of plasminogen activator inhibitor-1 by time-resolved fluorescence anisotropy. Molecular BioSystems, 2009, 5, 1025.	2.9	12
320	Site-Specific Two-Color Protein Labeling for FRET Studies Using Split Inteins. Journal of the American Chemical Society, 2009, 131, 11644-11645.	6.6	63
321	High Throughput Single Molecule Spectral Imaging of Photoactivated Luminescent Silver Clusters on Silver Island Films. Journal of Physical Chemistry C, 2009, 113, 5991-5997.	1.5	18
322	Methods of Site-Specific Labeling of RNA with Fluorescent Dyes. Methods in Enzymology, 2009, 469, 47-68.	0.4	52
323	Single-Quantum Dot Imaging with a Photon Counting Camera. Current Pharmaceutical Biotechnology, 2009, 10, 543-557.	0.9	36
324	Two-, Three-, and Four-State Events Occur in the Mechanical Unfolding of Small Protein L Using Molecular Dynamics Simulations. Protein and Peptide Letters, 2010, 17, 92-103.	0.4	11
325	Nonparametric inference of doubly stochastic Poisson process data via the kernel method. Annals of Applied Statistics, 2010, 4, 1913-1941.	0.5	11
326	An extended scheme for counting fluorescent molecules by photon-antibunching. Laser Physics, 2010, 20, 119-124.	0.6	26
327	Fluorescent Probes and Delivery Methods for Singleâ€Molecule Experiments. ChemPhysChem, 2010, 11, 43-53.	1.0	16
328	Single molecule and single quantum dot photodynamics by polarization-rotating modulation microscopy. Physics Procedia, 2010, 3, 1607-1613.	1.2	2
329	Single-molecule studies of DNA replisome function. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1094-1112.	1.1	18
330	FÃ¶rster resonance energy transfer measurements of cofactorâ€dependent effects on protein arginine Nâ€methyltransferase homodimerization. Protein Science, 2010, 19, 2141-2151.	3.1	20

#	Article	IF	Citations
331	Single-molecule characterization of microbial polysaccharides. , 2010, , 253-268.		3
332	Yeast arginine methyltransferase Hmt1p regulates transcription elongation and termination by methylating Npl3p. Nucleic Acids Research, 2010, 38, 2217-2228.	6.5	31
333	Forceâ€“Fluorescence Spectroscopy at the Single-Molecule Level. Methods in Enzymology, 2010, 475, 405-426.	0.4	28
334	Arginine Methylation Controls the Subcellular Localization and Functions of the Oncoprotein Splicing Factor SF2/ASF. Molecular and Cellular Biology, 2010, 30, 2762-2774.	1.1	82
335	Structure and Function of a G-actin Sequestering Protein with a Vital Role in Malaria Oocyst Development inside the Mosquito Vector. Journal of Biological Chemistry, 2010, 285, 11572-11583.	1.6	34
336	Enzymatic Activity Is Required for the in Vivo Functions of CARM1. Journal of Biological Chemistry, 2010, 285, 1147-1152.	1.6	61
337	Distance Variations between Active Sites of H+-Pyrophosphatase Determined by Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2010, 285, 23655-23664.	1.6	13
338	High-throughput single-molecule fluorescence spectroscopy using parallel detection. , 2010, 7608, .		12
339	Superexchange-mediated electronic energy transfer in a model dyad. Physical Chemistry Chemical Physics, 2010, 12, 7378.	1.3	32
340	Histone Modifications and Cancer. Advances in Genetics, 2010, 70, 57-85.	0.8	174
341	Denoising Single-Molecule FRET Trajectories with Wavelets and Bayesian Inference. Biophysical Journal, 2010, 98, 164-173.	0.2	47
342	Optimizing Methods to Recover Absolute FRET Efficiency from Immobilized Single Molecules. Biophysical Journal, 2010, 99, 961-970.	0.2	93
343	Comparative Analysis of RNA/Protein Dynamics for the Arginine-Rich-Binding Motif and Zinc-Finger-Binding Motif Proteins Encoded by HIV-1. Biophysical Journal, 2010, 99, 3454-3462.	0.2	3
344	Visualizing and Tuning Thermodynamic Dispersion in Metalloprotein Monolayers. Journal of the American Chemical Society, 2010, 132, 16938-16944.	6.6	24
345	Fractional LÃ©vy stable motion can model subdiffusive dynamics. Physical Review E, 2010, 82, 021130.	0.8	87
346	Spectroscopic Rationale for Efficient Stimulated-Emission Depletion Microscopy Fluorophores. Journal of the American Chemical Society, 2010, 132, 5021-5023.	6.6	98
347	High-throughput FCS using an LCOS spatial light modulator and an 8 Ã— 1 SPAD array. Biomedical Optics Express, 2010, 1, 1408.	1.5	74
348	Novel insights into the functional role of three protein arginine methyltransferases in Aspergillus nidulans. Fungal Genetics and Biology, 2010, 47, 551-561.	0.9	21

#	Article	IF	Citations
349	Accurate Single-Molecule FRET Studies Using Multiparameter Fluorescence Detection. Methods in Enzymology, 2010, 475, 455-514.	0.4	234
350	A Bird's Eye View. Methods in Enzymology, 2010, 475, 121-148.	0.4	34
351	Subcellular Dynamics and Protein Conformation Fluctuations Measured by Fourier Imaging Correlation Spectroscopy. Annual Review of Physical Chemistry, 2010, 61, 111-128.	4.8	7
352	Involvement of the LSPR Spectral Overlap for Energy Transfer between a Dye and Au Nanoparticle. Journal of the American Chemical Society, 2010, 132, 9383-9391.	6.6	199
353	Tackling metal regulation and transport at the single-molecule level. Natural Product Reports, 2010, 27, 757.	5.2	12
354	Rapid detection of two-protein interaction with a single fluorophore by using a microfluidic device. Analyst, The, 2010, 135, 2907.	1.7	9
355	A molecular theory for two-photon and three-photon fluorescence polarization. Journal of Chemical Physics, 2011, 134, 094503.	1.2	19
356	A Protein Arginine N-Methyltransferase 1 (PRMT1) and 2 Heteromeric Interaction Increases PRMT1 Enzymatic Activity. Biochemistry, 2011, 50, 8226-8240.	1.2	34
357	Gauging the Flexibility of Fluorescent Markers for the Interpretation of Fluorescence Resonance Energy Transfer. Journal of the American Chemical Society, 2011, 133, 279-285.	6.6	20
358	Electrons, Photons, and Force: Quantitative Single-Molecule Measurements from Physics to Biology. ACS Nano, 2011, 5, 693-729.	7.3	95
359	Chemical Kinetics at the Single-Molecule Level. Journal of Chemical Education, 2011, 88, 162-166.	1.1	2
360	Structural basis for CARM1 inhibition by indole and pyrazole inhibitors. Biochemical Journal, 2011, 436, 331-339.	1.7	90
361	SERS Orientational Imaging of Silver Nanoparticle Dimers. Journal of Physical Chemistry Letters, 2011, 2, 2711-2715.	2.1	43
362	Four-wave mixing microscopy of nanostructures. Advances in Optics and Photonics, 2011, 3, 1.	12.1	113
363	Crystal Structure of the Plant Epigenetic Protein Arginine Methyltransferase 10. Journal of Molecular Biology, 2011, 414, 106-122.	2.0	27
364	The role of the environment in electronic energy transfer: a molecular modeling perspective. Physical Chemistry Chemical Physics, 2011, 13, 11538.	1.3	53
365	Thermodynamics of Ligand-Protein Interactions: Implications for Molecular Design. , 0, , .		17
366	A New Theoretical Approach to Single-Molecule Fluorescence Optical Studies of RNA Dynamics. Journal of Physics: Conference Series, 2011, 277, 012052.	0.3	0

#	Article	IF	Citations
367	Fluorophore Selection for Single-Molecule Fluorescence Spectroscopy (SMFS) and Photobleaching Pathways. , 2011, , 85-92.		0
368	Photophysics of New Photostable Rylene Derivatives: Applications in Singleâ€Molecule Studies and Membrane Labelling. ChemPhysChem, 2011, 12, 1588-1595.	1.0	28
369	Timeâ€Dependent FRET with Single Enzymes: Domain Motions and Catalysis in H + â€ATP Synthases. ChemPhysChem, 2011, 12, 510-517.	1.0	8
370	Role of protein flexibility in the discovery of new drugs. Drug Development Research, 2011, 72, 26-35.	1.4	14
371	Prediction and analysis of protein methylarginine and methyllysine based on Multisequence features. Biopolymers, 2011, 95, 763-771.	1.2	27
372	Development of Lipid Targeting Raman Probes for In Vivo Imaging of Caenorhabditis elegans. Chemistry - A European Journal, 2011, 17, 5165-5170.	1.7	29
373	Protein folding at single-molecule resolution. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1021-1029.	1.1	46
374	The chemical dynamics of nanosensors capable of single-molecule detection. Journal of Chemical Physics, 2011, 135, 084124.	1.2	21
375	Increased Structural Flexibility at the Active Site of a Fluorophore-conjugated Î²-Lactamase Distinctively Impacts Its Binding toward Diverse Cephalosporin Antibiotics. Journal of Biological Chemistry, 2011, 286, 31771-31780.	1.6	17
376	Structural insights into protein arginine symmetric dimethylation by PRMT5. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20538-20543.	3.3	120
377	Fluorescence detections and directions. Measurement Science and Technology, 2011, 22, 052002.	1.4	16
378	Enhancing Single Molecule Imaging in Optofluidics and Microfluidics. International Journal of Molecular Sciences, 2011, 12, 5135-5156.	1.8	20
379	Modification of FÃ¶rster Resonance Energy Transfer Efficiencyat Interfaces. International Journal of Molecular Sciences, 2012, 13, 15227-15240.	1.8	15
380	Single Molecule Fluorescence Detection and Tracking in Mammalian Cells: The State-of-the-Art and Future Perspectives. International Journal of Molecular Sciences, 2012, 13, 14742-14765.	1.8	25
381	Direct observation of kinetic traps associated with structural transformations leading to multiple pathways of S-layer assembly. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12968-12973.	3.3	77
382	Parallel multispot smFRET analysis using an 8-pixel SPAD array. Proceedings of SPIE, 2012, 8228, .	0.8	15
383	Crystal structure of the human PRMT5:MEP50 complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17960-17965.	3.3	261
384	Signal enhancement in multiphoton TIRF microscopy by shaping of broadband femtosecond pulses. Optics Express, 2012, 20, 25948.	1.7	11

#	Article	IF	Citations
385	Solvated dissipative electro-elastic network model of hydrated proteins. Journal of Chemical Physics, 2012, 137, 165101.	1.2	14
386	Dissipative electro-elastic network model of protein electrostatics. Physical Biology, 2012, 9, 036004.	0.8	9
388	Correlation analysis of enzymatic reaction of a single protein molecule. Annals of Applied Statistics, 2012, 6, 950-976.	0.5	7
389	Nonfluorescent Quenchers To Correlate Single-Molecule Conformational and Compositional Dynamics. Journal of the American Chemical Society, 2012, 134, 5734-5737.	6.6	39
390	Time-of-Flight Photon Spectroscopy: A Simple Scheme To Monitor Simultaneously Spectral and Temporal Fluctuations of Emission on Single Nanoparticles. ACS Nano, 2012, 6, 10512-10523.	7.3	10
391	Proteomic analysis of interactors for yeast protein arginine methyltransferase Hmt1 reveals novel substrate and insights into additional biological roles. Proteomics, 2012, 12, 3304-3314.	1.3	10
392	Protein and nucleic acid methylating enzymes: mechanisms and regulation. Current Opinion in Chemical Biology, 2012, 16, 507-515.	2.8	25
393	Analogues of the HIV-Tat peptide containing Nî·-modified arginines as potent inhibitors of protein arginine N-methyltransferases. MedChemComm, 2012, 3, 1235.	3.5	11
394	General and reliable quantitative measurement of fluorescence resonance energy transfer using three fluorescence channels. Analyst, The, 2012, 137, 1013.	1.7	3
395	Response of Rotationâ€“Translation Blocked Proteins Using Langevin Dynamics on a Locally Harmonic Landscape. Journal of Physical Chemistry B, 2012, 116, 12142-12158.	1.2	3
396	Peptide Backbone Conformation Affects the Substrate Preference of Protein Arginine Methyltransferase I. Biochemistry, 2012, 51, 5463-5475.	1.2	12
397	How to understand the ensemble equivalence during stretching of a single macromolecule. Polymer Science - Series A, 2012, 54, 602-613.	0.4	12
398	Protein arginine methylation in SaccharomycesÂcerevisiae. FEBS Journal, 2012, 279, 4423-4443.	2.2	45
399	Single Molecule FRET Characterization of Large Ribozyme Folding. Methods in Molecular Biology, 2012, 848, 227-251.	0.4	13
400	Cooperativity in monomeric enzymes with single ligand-binding sites. Bioorganic Chemistry, 2012, 43, 44-50.	2.0	90
401	Characterization of Dark Quencher Chromophores as Nonfluorescent Acceptors for Single-Molecule FRET. Biophysical Journal, 2012, 102, 2658-2668.	0.2	55
402	Discriminating Nanoparticle Dimers from Higher Order Aggregates through Wavelength-Dependent SERS Orientational Imaging. ACS Nano, 2012, 6, 1806-1813.	7.3	29
403	A New Method for Inferring Hidden Markov Models from Noisy Time Sequences. PLoS ONE, 2012, 7, e29703.	1.1	40

#	Article	IF	Citations
404	Minimalist Probes for Studying Protein Dynamics: Thioamide Quenching of Selectively Excitable Fluorescent Amino Acids. Journal of the American Chemical Society, 2012, 134, 6088-6091.	6.6	69
405	Synthesis and properties of fluorescent dyes conjugated to hyperbranched polyglycerols. New Journal of Chemistry, 2012, 36, 419-427.	1.4	33
406	Fluorescent water-soluble probes based on dendritic PEG substituted perylene bisimides: synthesis, photophysical properties, and live cell images. Journal of Materials Chemistry, 2012, 22, 6176.	6.7	42
407	Allosteric inhibition of individual enzyme molecules trapped in lipid vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1437-E1443.	3.3	70
408	Bayesianâ€Inferenceâ€Based Fluorescence Correlation Spectroscopy and Singleâ€Molecule Burst Analysis Reveal the Influence of Dye Selection on DNA Hairpin Dynamics. ChemPhysChem, 2012, 13, 1013-1022.	1.0	17
409	Engineering strain-sensitive yellow fluorescent protein. Chemical Communications, 2012, 48, 7871.	2.2	17
410	The enzymatic activity of Arabidopsis protein arginine methyltransferase 10 is essential for flowering time regulation. Protein and Cell, 2012, 3, 450-459.	4.8	11
411	Observation of protein folding/unfolding dynamics of ubiquitin trapped in agarose gel by single-molecule FRET. European Biophysics Journal, 2012, 41, 189-198.	1.2	9
412	Protein Arginine Allylation and Subsequent Fluorophore Targeting. ChemBioChem, 2013, 14, 1438-1443.	1.3	11
413	Dynamics in Protein Powders on the Nanosecondâ€“Picosecond Time Scale Are Dominated by Localized Motions. Journal of Physical Chemistry B, 2013, 117, 11548-11555.	1.2	23
414	Thioamide Quenching of Fluorescent Probes through Photoinduced Electron Transfer: Mechanistic Studies and Applications. Journal of the American Chemical Society, 2013, 135, 18651-18658.	6.6	72
416	Single-molecule surface-enhanced Raman spectroscopy: a perspective on the current status. Physical Chemistry Chemical Physics, 2013, 15, 5276.	1.3	99
417	Heterogeneity in Single-Molecule Observables in the Study of Supercooled Liquids. Annual Review of Physical Chemistry, 2013, 64, 177-200.	4.8	62
418	KATP and Sulfonylurea Receptor. , 2013, , 1175-1182.		0
419	Single molecule FRET data analysis procedures for FRET efficiency determination: Probing the conformations of nucleic acid structures. Methods, 2013, 64, 36-42.	1.9	14
420	A Nutrient-Responsive Pathway that Determines M Phase Timing through Control of B-Cyclin mRNA Stability. Cell, 2013, 153, 1080-1093.	13.5	38
421	8-channel acquisition system for time-correlated single-photon counting. Review of Scientific Instruments, 2013, 84, 064705.	0.6	24
422	Single-Molecule Spectroscopic Study of Dynamic Nanoscale DNA Bending Behavior of HIV-1 Nucleocapsid Protein. Journal of Physical Chemistry B, 2013, 117, 4183-4196.	1.2	15

#	Article	IF	Citations
423	Temperature Sculpting in Yoctoliter Volumes. Journal of the American Chemical Society, 2013, 135, 3087-3094.	6.6	51
424	Quantum Dots in Bioanalysis: A Review of Applications across Various Platforms for Fluorescence Spectroscopy and Imaging. Applied Spectroscopy, 2013, 67, 215-252.	1.2	499
425	Complete and Compact 32-Channel System for Time-Correlated Single-Photon Counting Measurements. IEEE Photonics Journal, 2013, 5, 6801514-6801514.	1.0	40
426	A 48-pixel array of single photon avalanche diodes for multispot single molecule analysis. Proceedings of SPIE, 2013, 8631, .	0.8	10
427	8-spot smFRET analysis using two 8-pixel SPAD arrays. , 2013, 8590, .		23
428	Large enhancement of FÃ¶rster resonance energy transfer on graphene platforms. Applied Physics Letters, 2013, 103, .	1.5	32
429	Development of new photon-counting detectors for single-molecule fluorescence microscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120035.	1.8	100
430	Tracking of Single Receptor Molecule Mobility in Neuronal Membranes: A Quick Theoretical and Practical Guide. Journal of Neuroendocrinology, 2013, 25, 1231-1237.	1.2	4
431	Automethylation of Protein Arginine Methyltransferase 8 (PRMT8) Regulates Activity by Impeding S-Adenosylmethionine Sensitivity. Journal of Biological Chemistry, 2013, 288, 27872-27880.	1.6	49
432	Photobleaching Lifetimes of Cyanine Fluorophores Used for Singleâ€Molecule FÃ¶rster Resonance Energy Transfer in the Presence of Various Photoprotection Systems. ChemBioChem, 2013, 14, 1075-1080.	1.3	15
433	Advanced-Microscopy Techniques for the Characterization of Cellulose Structure and Cellulose-Cellulase Interactions. , 2013, , .		5
434	Crystal Structure of Arginine Methyltransferase 6 from Trypanosoma brucei. PLoS ONE, 2014, 9, e87267.	1.1	21
435	The separation between the 5â€²-3â€² ends in long RNA molecules is short and nearly constant. Nucleic Acids Research, 2014, 42, 13963-13968.	6.5	30
436	Fast fitting to low resolution density maps: elucidating large-scale motions of the ribosome. Nucleic Acids Research, 2014, 42, e9-e9.	6.5	17
437	Single-molecule fluorescence imaging by total internal reflection fluorescence microscopy (IUPAC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	10
438	Fine tuning of sub-millisecond conformational dynamics controls metabotropic glutamate receptors agonist efficacy. Nature Communications, 2014, 5, 5206.	5.8	89
439	Silicon Photon-Counting Avalanche Diodes for Single-Molecule Fluorescence Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 248-267.	1.9	56
440	Multi-state Targeting Machinery Govern the Fidelity and Efficiency of Protein Localization. Advances in Experimental Medicine and Biology, 2014, 805, 385-409.	0.8	2

#	Article	IF	Citations
441	Microsecond Folding and Domain Motions of a Spider Silk Protein Structural Switch. Journal of the American Chemical Society, 2014, 136, 17136-17144.	6.6	39
442	Altered Histone Modifications in Gliomas. Brain Tumor Research and Treatment, 2014, 2, 7.	0.4	54
443	Structural insight into arginine methylation by the mouse protein arginine methyltransferase 7: a zinc finger freezes the mimic of the dimeric state into a single active site. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2401-2412.	2.5	32
444	In vitro assembly and activity of an archaeal CRISPR-Cas type I-A Cascade interference complex. Nucleic Acids Research, 2014, 42, 5125-5138.	6.5	56
445	Noninvasive Evaluation of Heavy Metal Uptake and Storage in Micoralgae Using a Fluorescence Resonance Energy Transfer-Based Heavy Metal Biosensor. Plant Physiology, 2014, 164, 1059-1067.	2.3	14
446	Right- and left-handed three-helix proteins. II. Similarity and differences in mechanical unfolding of proteins. Proteins: Structure, Function and Bioinformatics, 2014, 82, 90-102.	1.5	10
447	Virtual screening and biological evaluation of novel small molecular inhibitors against protein arginine methyltransferase 1 (PRMT1). Organic and Biomolecular Chemistry, 2014, 12, 9665-9673.	1.5	27
448	Nanophotonic Enhancement of the FÃ¶rster Resonance Energy-Transfer Rate with Single Nanoapertures. Nano Letters, 2014, 14, 4707-4714.	4.5	86
449	Fast Step Transition and State Identification (STaSI) for Discrete Single-Molecule Data Analysis. Journal of Physical Chemistry Letters, 2014, 5, 3157-3161.	2.1	79
450	Bayesian Inference of Accurate Population Sizes and FRET Efficiencies from Single Diffusing Biomolecules. Analytical Chemistry, 2014, 86, 8603-8612.	3.2	11
451	Smartphone Fluorescence Spectroscopy. Analytical Chemistry, 2014, 86, 8805-8813.	3.2	238
452	Structural Determinants for the Strict Monomethylation Activity by Trypanosoma brucei Protein Arginine Methyltransferase 7. Structure, 2014, 22, 756-768.	1.6	43
453	Studying the organization of DNA repair by single-cell and single-molecule imaging. DNA Repair, 2014, 20, 32-40.	1.3	29
454	Single-molecule studies of riboswitch folding. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 1030-1045.	0.9	49
455	Preparation of calcium carbonate microparticles containing organic fluorescent molecules from vaterite. Advanced Powder Technology, 2014, 25, 1147-1154.	2.0	13
456	Nâ€Terminal Protein Modification by Substrateâ€Activated Reverse Proteolysis. Angewandte Chemie - International Edition, 2014, 53, 3024-3028.	7.2	62
458	Three-dimensional super-resolution and localization of dense clusters of single molecules. Scientific Reports, 2014, 4, 5388.	1.6	40
459	Strategy for Internal Labeling of Large RNAs with Minimal Perturbation by Using Fluorescent PNA. ChemBioChem, 2015, 16, 1302-1306.	1.3	11

#	Article	IF	Citations
460	FRET Enhancement in Aluminum Zeroâ€Mode Waveguides. ChemPhysChem, 2015, 16, 782-788.	1.0	42
461	Smartphone fluorescence spectroscopy. Proceedings of SPIE, 2015, , .	0.8	1
462	Tracking individual membrane proteins and their biochemistry: The power of direct observation. Neuropharmacology, 2015, 98, 22-30.	2.0	18
463	Imaging nano-objects by linear and nonlinear optical absorption microscopies. Nanotechnology, 2015, 26, 354001.	1.3	18
464	Analyzing Single-Molecule Time Series via Nonparametric Bayesian Inference. Biophysical Journal, 2015, 108, 540-556.	0.2	49
465	Determination of arsenic(<scp>iii</scp>) based on the fluorescence resonance energy transfer between CdTe QDs and Rhodamine 6G. RSC Advances, 2015, 5, 17519-17525.	1.7	34
466	Dimensionality Effects on Fluorescence Resonance Energy Transfer between Single Semiconductor Nanocrystals and Multiple Dye Acceptors. Journal of Physical Chemistry C, 2015, 119, 3849-3856.	1.5	19
467	Extracting physics of life at the molecular level: A review of single-molecule data analyses. Physics of Life Reviews, 2015, 13, 107-137.	1.5	24
468	Pivotal and distinct role for P lasmodium actin capping protein alpha during blood infection of the malaria parasite. Molecular Microbiology, 2015, 96, 84-94.	1.2	16
469	Visualization and thermodynamic encoding of single-molecule partition function projections. Nature Communications, 2015, 6, 6210.	5.8	23
470	An enhanced chemiluminescence resonance energy transfer system based on target recycling G-guadruplexes/hemin DNAzyme catalysis and its application in ultrasensitive detection of DNA. Talanta, 2015, 138, 59-63.	2.9	14
471	Stepwise Motion in a Multivalent [2](3)Catenane. Journal of the American Chemical Society, 2015, 137, 9739-9745.	6.6	100
472	Yeast Hmt1 catalyses asymmetric dimethylation of histone H3 arginine 2 inÂvitro. Biochemical Journal, 2015, 467, 507-515.	1.7	13
473	Fluorescently labeled recombinant RNAP system to probe archaeal transcription initiation. Methods, 2015, 86, 10-18.	1.9	11
474	Redox Control of Protein Arginine Methyltransferase 1 (PRMT1) Activity. Journal of Biological Chemistry, 2015, 290, 14915-14926.	1.6	36
475	Matching Nanoantenna Field Confinement to FRET Distances Enhances FÃ¶rster Energy Transfer Rates. Nano Letters, 2015, 15, 6193-6201.	4.5	85
476	Functional insights from high resolution structures of mouse protein arginine methyltransferase 6. Journal of Structural Biology, 2015, 191, 175-183.	1.3	23
477	Structured oligonucleotides for target indexing to allow single-vessel PCR amplification and solid support microarray hybridization. Analyst, The, 2015, 140, 912-921.	1.7	5

#	Article	IF	Citations
478	Insights into Proteinâ€“Ligand Interactions: Mechanisms, Models, and Methods. International Journal of Molecular Sciences, 2016, 17, 144.	1.8	885
479	Super-resolution spectroscopic microscopy via photon localization. Nature Communications, 2016, 7, 12290.	5.8	91
480	Competition between FÃ¶rster Resonance Energy Transfer and Donor Photodynamics in Plasmonic Dimer Nanoantennas. ACS Photonics, 2016, 3, 895-903.	3.2	61
481	Startling temperature effect on proteins when confined: single molecular level behaviour of human serum albumin in a reverse micelle. Physical Chemistry Chemical Physics, 2016, 18, 14350-14358.	1.3	16
482	An atomistic view on carbocyanine photophysics in the realm of RNA. Physical Chemistry Chemical Physics, 2016, 18, 29045-29055.	1.3	29
483	Single molecule fluorescence spectroscopy for quantitative biological applications. Quantitative Biology, 2016, 4, 177-191.	0.3	4
484	Plasmonic Nanoantennas Enable Forbidden FÃ¶rster Dipoleâ€“Dipole Energy Transfer and Enhance the FRET Efficiency. Nano Letters, 2016, 16, 6222-6230.	4.5	73
485	Single-molecule fluorescence resonance energy transfer in molecular biology. Nanoscale, 2016, 8, 19928-19944.	2.8	78
486	The activity of a yeast Family 16 methyltransferase, Efm2, is affected by a conserved tryptophan and its Nâ€terminal region. FEBS Open Bio, 2016, 6, 1320-1330.	1.0	5
487	Metal ion induced heterogeneity in RNA folding studied by smFRET. Coordination Chemistry Reviews, 2016, 327-328, 123-142.	9.5	23
488	Novel helical assembly in arginine methyltransferase 8. Journal of Molecular Biology, 2016, 428, 1197-1208.	2.0	19
489	A molecular imaging biosensor detects in vivo protein folding and misfolding. Journal of Molecular Medicine, 2016, 94, 799-808.	1.7	5
490	Stepwise Signal Extraction via Marginal Likelihood. Journal of the American Statistical Association, 2016, 111, 314-330.	1.8	35
491	Triangulating Nucleic Acid Conformations Using Multicolor Surface Energy Transfer. ACS Nano, 2016, 10, 1926-1938.	7.3	16
492	Epigenetic alterations underlying autoimmune diseases. Autoimmunity, 2016, 49, 69-83.	1.2	79
493	Tunable PIE and synchronized gating detections by FastFLIM for quantitative microscopy measurements of fast dynamics of single molecules. , 2016, , .		1
494	Analyzing Single-Molecule Protein Transportation Experiments via Hierarchical Hidden Markov Models. Journal of the American Statistical Association, 2016, 111, 951-966.	1.8	11
495	A glutamate/aspartate switch controls product specificity in a protein arginine methyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2068-2073.	3.3	44

#	Article	IF	Citations
496	Role of Enzyme Flexibility in Ligand Access and Egress to Active Site: Bias-Exchange Metadynamics Study of 1,3,7-Trimethyluric Acid in Cytochrome P450 3A4. Journal of Chemical Theory and Computation, 2016, 12, 2101-2109.	2.3	44
497	Diazaoxatriangulenium: synthesis of reactive derivatives and conjugation to bovine serum albumin. Organic and Biomolecular Chemistry, 2016, 14, 1091-1101.	1.5	27
498	Biochemistry and regulation of the protein arginine methyltransferases (PRMTs). Archives of Biochemistry and Biophysics, 2016, 590, 138-152.	1.4	140
499	Deciphering Complexity in Molecular Biophysics with Single-Molecule Resolution. Journal of Molecular Biology, 2016, 428, 301-307.	2.0	11
500	Developments in the Photonic Theory of Fluorescence. Reviews in Fluorescence, 2016, , 235-268.	0.5	0
501	Ensemble and single-molecule biophysical characterization of D17.4 DNA aptamerâ€“IgE interactions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 154-164.	1.1	14
502	N6-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. Journal of Molecular Biology, 2016, 428, 822-833.	2.0	164
503	Joint refinement of FRET measurements using spectroscopic and computational tools. Analytical Biochemistry, 2017, 522, 1-9.	1.1	21
504	Plasmon-coupled resonance energy transfer: A real-time electrodynamics approach. Journal of Chemical Physics, 2017, 146, 064109.	1.2	50
505	Competitive folding of RNA structures at a terminationâ€“antitermination site. Rna, 2017, 23, 721-734.	1.6	3
506	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
507	The winding path of protein methylation research: milestones and new frontiers. Nature Reviews Molecular Cell Biology, 2017, 18, 517-527.	16.1	154
508	Single Particle Tracking: From Theory to Biophysical Applications. Chemical Reviews, 2017, 117, 7331-7376.	23.0	392
509	Single-Molecule Localization Microscopy in Eukaryotes. Chemical Reviews, 2017, 117, 7478-7509.	23.0	337
510	The Major Protein Arginine Methyltransferase in Trypanosoma brucei Functions as an Enzyme-Prozyme Complex. Journal of Biological Chemistry, 2017, 292, 2089-2100.	1.6	31
511	Understanding the connection between conformational changes of peptides and equilibrium thermal fluctuations. Physical Chemistry Chemical Physics, 2017, 19, 3459-3463.	1.3	2
512	Singleâ€Molecule Monitoring of the Structural Switching Dynamics of Nucleic Acids through Controlling Fluorescence Blinking. Angewandte Chemie - International Edition, 2017, 56, 15329-15333.	7.2	11
513	Singleâ€Molecule Monitoring of the Structural Switching Dynamics of Nucleic Acids through Controlling Fluorescence Blinking. Angewandte Chemie, 2017, 129, 15531-15535.	1.6	6

#	Article	IF	Citations
514	Controlling FRET Enhancement Using Plasmon Modes on Gold Nanogratings. Journal of Physical Chemistry C, 2017, 121, 22353-22360.	1.5	7
515	DNA and Histone Methylation in Brain Cancer. Cancer Drug Discovery and Development, 2017, , 347-376.	0.2	0
516	Highly chromophoric Cy5-methionine for N-terminal fluorescent tagging of proteins in eukaryotic translation systems. Scientific Reports, 2017, 7, 11642.	1.6	7
517	Highly efficient FRET from aggregation-induced emission to BODIPY emission based on hostâ€“guest interaction for mimicking the light-harvesting system. RSC Advances, 2017, 7, 36021-36025.	1.7	26
518	Intracellular Protein-Labeling Probes for Multicolor Single-Molecule Imaging of Immune Receptorâ€“Adaptor Molecular Dynamics. Journal of the American Chemical Society, 2017, 139, 17397-17404.	6.6	24
519	Monitoring methanol-induced protein unfolding by fluorescence anisotropy measurements of covalently labelled rhodamine probe. European Physical Journal D, 2017, 71, 1.	0.6	4
520	Single-molecule FRET studies of ion channels. Progress in Biophysics and Molecular Biology, 2017, 130, 192-197.	1.4	22
521	Probing Single Helicase Dynamics on Long Nucleic Acids Through Fluorescence-Force Measurement. Methods in Molecular Biology, 2017, 1486, 295-316.	0.4	7
522	Structural studies of protein arginine methyltransferase 2 reveal its interactions with potential substrates and inhibitors. FEBS Journal, 2017, 284, 77-96.	2.2	25
523	FÃ¶rster resonance energy transfer: Role of diffusion of fluorophore orientation and separation in observed shifts of FRET efficiency. PLoS ONE, 2017, 12, e0177122.	1.1	36
524	Fluorescence lifetime correlation spectroscopy: Basics and applications. Methods, 2018, 140-141, 32-39.	1.9	38
525	Estimating kinetic mechanisms with prior knowledge II: Behavioral constraints and numerical tests. Journal of General Physiology, 2018, 150, 339-354.	0.9	12
526	Fluorescence Redox Blinking Adaptable to Structural Analysis of Nucleic Acids. Chemistry - A European Journal, 2018, 24, 6755-6761.	1.7	8
527	In vitro methods for testing antiviral drugs. Biotechnology Advances, 2018, 36, 557-576.	6.0	39
528	Rapid preparation of self-assembled CdTe quantum dots used for sensing of DNA in urine. New Journal of Chemistry, 2018, 42, 6005-6012.	1.4	10
529	Applications of high-speed atomic force microscopy to real-time visualization of dynamic biomolecular processes. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 229-240.	1.1	45
530	A mechanistic insight into protein-ligand interaction, folding, misfolding, aggregation and inhibition of protein aggregates: An overview. International Journal of Biological Macromolecules, 2018, 106, 1115-1129.	3.6	43
531	Characterization of Protein Methyltransferases Rkm1, Rkm4, Efm4, Efm7, Set5 and Hmt1 Reveals Extensive Post-Translational Modification. Journal of Molecular Biology, 2018, 430, 102-118.	2.0	17

#	Article	IF	Citations
532	Kinetic Analysis of PRMT1 Reveals Multifactorial Processivity and a Sequential Ordered Mechanism. ChemBioChem, 2018, 19, 85-99.	1.3	17
533	Plasmon Rulers as a Probe for Real-Time Microsecond Conformational Dynamics of Single Molecules. Nano Letters, 2018, 18, 7927-7934.	4.5	37
534	Enhancing the stability of trehalose synthase via SpyTag/SpyCatcher cyclization to improve its performance in industrial biocatalysts. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1473-1479.	0.6	12
535	Correlating Structural and Functional Heterogeneity of Immobilized Enzymes. ACS Nano, 2018, 12, 8091-8103.	7.3	38
536	Nanosurface Energy Transfer from Long-Lifetime Terbium Donors to Gold Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 17566-17574.	1.5	33
537	Labelâ€Free Optical Singleâ€Molecule Microâ€•and Nanosensors. Advanced Materials, 2018, 30, e1801246.	11.1	43
538	Laser-induced fluorescence quenching of red fluorescent dyes with green excitation: Avoiding artifacts in PIE-FRET and FCCS analysis. Chemical Physics Letters, 2018, 706, 669-674.	1.2	4
539	Extending Single-Molecule FÃ¶rster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. ACS Nano, 2019, 13, 8469-8480.	7.3	54
540	Gel Trapping Enables Optical Spectroscopy of Single Solvated Conjugated Polymers in Equilibrium. ACS Nano, 2019, 13, 13185-13195.	7.3	6
541	Site-Directed Fluorescence Approaches for Dynamic Structural Biology of Membrane Peptides and Proteins. Frontiers in Molecular Biosciences, 2019, 6, 96.	1.6	28
542	Arginine methylation augments Sbp1 function in translation repression and decapping. FEBS Journal, 2019, 286, 4693-4708.	2.2	17
543	Protein arginine methyltransferases: insights into the enzyme structure and mechanism at the atomic level. Cellular and Molecular Life Sciences, 2019, 76, 2917-2932.	2.4	74
544	Unsupervised classification of PSII with and without water-oxidizing complex samples by PARAFAC resolution of excitation-emission fluorescence images. Journal of Photochemistry and Photobiology B: Biology, 2019, 195, 58-66.	1.7	3
545	Direct Imaging of the Energy-Transfer Enhancement between Two Dipoles in a Photonic Cavity. Physical Review X, 2019, 9, .	2.8	22
547	Caught green-handed: methods for in vivo detection and visualization of protease activity. Journal of Experimental Botany, 2019, 70, 2125-2141.	2.4	7
548	Alleviated Inhibition of Single Enzyme in Confined and Crowded Environment. Journal of Physical Chemistry Letters, 2019, 10, 82-89.	2.1	11
549	Modulation of Î±-Synuclein Aggregation by Cytochrome c Binding and Hetero-dityrosine Adduct Formation. ACS Chemical Neuroscience, 2019, 10, 1300-1310.	1.7	11
550	Design Nanoprobe Based on Its Binding with Amino Acid Residues on Cell Surface and Its Application to Electrochemical Analysis of Cells. Analytical Chemistry, 2019, 91, 1005-1010.	3.2	23

#	Article	IF	Citations
551	Structural Basis of Protein Arginine Methyltransferase Activation by a Catalytically Dead Homolog (Prozyme). Journal of Molecular Biology, 2020, 432, 410-426.	2.0	6
552	Single-molecule fluorescence resonance energy transfer and its biomedical applications. TrAC - Trends in Analytical Chemistry, 2020, 122, 115753.	5.8	21
553	The application of differential scanning fluorimetry in exploring bisubstrate binding to protein arginine N-methyltransferase 1. Methods, 2020, 175, 10-23.	1.9	8
554	Fluorescence Quantum Yields in Complex Environments from QM-MM TDDFT Simulations: The Case of Indole in Different Solvents. Journal of Physical Chemistry A, 2020, 124, 9503-9512.	1.1	9
555	The Role of Histone Acetylation-/Methylation-Mediated Apoptotic Gene Regulation in Hepatocellular Carcinoma. International Journal of Molecular Sciences, 2020, 21, 8894.	1.8	30
556	Cavity-enhanced energy transfer between nano-emitters and monolayer graphene. Carbon, 2020, 161, 794-799.	5.4	8
557	Application of Solid-State Nanopore in Protein Detection. International Journal of Molecular Sciences, 2020, 21, 2808.	1.8	22
558	FRET Analysis of Ionic Strength Sensors in the Hofmeister Series of Salt Solutions Using Fluorescence Lifetime Measurements. Journal of Physical Chemistry B, 2020, 124, 3447-3458.	1.2	12
559	Study of refolding of a denatured protein and microenvironment probed through FRET to a twisted intramolecular charge transfer fluorescent biosensor molecule. Journal of Molecular Liquids, 2021, 322, 114532.	2.3	16
560	Licochalcone A is a natural selective inhibitor of arginine methyltransferase 6. Biochemical Journal, 2021, 478, 389-406.	1.7	12
561	Single-Molecule Study of Redox Reaction Kinetics by Observing Fluorescence Blinking. Accounts of Chemical Research, 2021, 54, 1001-1010.	7.6	14
562	Measuring 3D orientation of nanocrystals via polarized luminescence of rare-earth dopants. Nature Communications, 2021, 12, 1943.	5.8	23
563	Smart Protein-Based Biolasers: An Alternative Way to Protein Conformation Detection. ACS Applied Materials & Interfaces, 2021, 13, 19187-19192.	4.0	15
564	Singleâ€Molecule FRET of Membrane Transport Proteins. ChemBioChem, 2021, 22, 2657-2671.	1.3	21
565	Arginine methylation and cytoplasmic mRNA fate: An exciting new partnership. Yeast, 2021, 38, 441-452.	0.8	3
566	Subsecond Time-Resolved Mass Spectrometry in Dynamic Structural Biology. Chemical Reviews, 2022, 122, 7624-7646.	23.0	21
567	Structure, Activity and Function of the Protein Arginine Methyltransferase 6. Life, 2021, 11, 951.	1.1	11
568	Single-molecule FRET dynamics of molecular motors in an ABEL trap. Methods, 2021, 193, 96-106.	1.9	8

#	Article	IF	Citations
569	Advanced fluorescence correlation spectroscopy for studying biomolecular conformation. Current Opinion in Structural Biology, 2021, 70, 123-131.	2.6	7
570	Elementary processes of DNA surface hybridization resolved by single-molecule kinetics: implication for macroscopic device performance. Chemical Science, 2021, 12, 2217-2224.	3.7	5
571	The Biarsenical-tetracysteine Protein Tag: Chemistry and Biological Applications. , 0, , 427-457.		1
573	Fluorescence Probes of Protein Dynamics and Conformations in Freely Diffusing Molecules. , 2006, , 239-259.		5
574	Protein Arginine Methylation: A New Frontier in T Cell Signal Transduction. , 2006, 584, 189-206.		2
575	Single-Molecule FRET: Methods and Biological Applications. , 2009, , 129-163.		3
576	Labeling Neuronal Proteins with Quantum Dots for Single-Molecule Imaging. Methods in Molecular Biology, 2020, 2135, 169-177.	0.4	5
577	Single-Molecule FRET Characterization of RNA Remodeling Induced by an Antitermination Protein. Methods in Molecular Biology, 2015, 1259, 349-368.	0.4	3
578	Probing Backbone Dynamics with Hydrogen/Deuterium Exchange Mass Spectrometry. Methods in Molecular Biology, 2014, 1084, 81-99.	0.4	4
579	Single Molecule Approaches for Studying Spliceosome Assembly and Catalysis. Methods in Molecular Biology, 2014, 1126, 217-241.	0.4	12
580	Single Biomolecules at Cryogenic Temperatures: From Structure to Dynamics. Springer Series in Biophysics, 2008, , 25-51.	0.4	4
581	Electronic Energy Transfer in Photosynthetic Antenna Systems. Springer Series in Chemical Physics, 2009, , 3-34.	0.2	13
582	Single-Protein Dynamics and the Regulation of the Plasma-Membrane Ca2+ Pump. , 2011, , 121-151.		1
583	Recent advances in measuring the kinetics of biomolecules by NMR relaxation dispersion spectroscopy. Archives of Biochemistry and Biophysics, 2017, 628, 81-91.	1.4	30
584	Probing Coupled Motions in Enzymatic Hydrogen Tunnelling Reactions: Beyond Temperature-Dependence Studies of Kinetic Isotope Effects. RSC Biomolecular Sciences, 2009, , 199-218.	0.4	12
585	Studying the physics of charged macromolecules by single molecule fluorescence spectroscopy. Journal of Chemical Physics, 2020, 153, 170903.	1.2	7
587	Cloning, expression, purification and preliminary X-ray crystallographic analysis of mouse protein arginine methyltransferase 7. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 80-86.	0.4	8
588	Fluorescent Labelling of Membrane Proteins in Living Cells. , 2006, , 199-210.		2

#	Article	IF	Citations
589	In Vivo Fluorescence Imaging and Spectroscopy. , 2010, , 30-1-30-11.		1
590	Theoretical Insights into Catalytic Mechanism of Protein Arginine Methyltransferase 1. PLoS ONE, 2013, 8, e72424.	1.1	17
591	Covalent dye attachment influences the dynamics and conformational properties of flexible peptides. PLoS ONE, 2017, 12, e0177139.	1.1	18
593	How single molecule detection measures the dynamic actions of life. , 2007, 1, 15-29.		5
594	Recent Advances in Single Molecule Fluorescence Spectroscopy. , 2004, , 121-163.		0
595	Single-Molecule FRET. , 2005, , 165-179.		0
596	Single Molecule Fluorescence Imaging and Spectroscopy: Far-Field Studies. Nanoscience and Technology, 2006, , 183-221.	1.5	0
597	Improvement of photostability using feedback from single-molecule fluorescence time trace. Annales De Physique, 2007, 32, 135-138.	0.2	0
598	Single-Molecule Detection Techniques for Monitoring Cellular Activity at the Nanoscale Level. , 2007, , .		0
599	Single-Molecule Microscopy and Force Spectroscopy of Membrane Proteins. Springer Series in Biophysics, 2008, , 279-311.	0.4	0
600	Conformational Structure and Dynamics from Single-Molecule FRET. Springer Series in Chemical Physics, 2009, , 73-100.	0.2	0
601	Methylation On The Nucleosome. , 2009, , 7-35.		1
602	Retrovirus Replication: New Perspectives on Enzyme and Substrate Dynamics. , 2010, , 307-343.		0
603	Nanoscopic Architecture and Microstructure. , 2011, , 205-279.		1
604	Single Molecule Studies. Springer Theses, 2012, , 183-203.	0.0	0
605	Novel Setups. Springer Theses, 2012, , 55-69.	0.0	0
606	Force from Lipids: A Multidisciplinary Approach to Study Bacterial Mechanosensitive Ion Channels. , 2012, , 1-33.		2
608	Conformational Dynamics of Reverse Transcription. , 2013, , 77-95.		0

#	Article	IF	Citations
609	Probing the Structural Basis of Retroviral RNA Functions via NMR Spectroscopy. , 2014, , 147-168.		0
610	Single-Molecule Detection Techniques for Monitoring Cellular Activity at the Nanoscale Level. , 2017, , 203-228.		0
611	Kinetics: Single-Molecule Techniques. , 2018, , 1-7.		0
612	VistaVision toolbox for quantitative multi-parameter analysis of single molecule dynamics. , 2019, , .		0
613	Naturally occurring cancer-associated mutations disrupt oligomerization and activity of protein arginine methyltransferase 1 (PRMT1). Journal of Biological Chemistry, 2021, 297, 101336.	1.6	9
615	Structure, Activity, and Function of PRMT1. Life, 2021, 11, 1147.	1.1	29
616	Conformational dynamics of auto-inhibition in the ER calcium sensor STIM1. ELife, 2021, 10, .	2.8	22
619	Physics of Biomolecular Recognition and Conformational Dynamics. Reports on Progress in Physics, 2021, 84, .	8.1	3
620	Experimental methods to study the thermodynamics of proteinâ€“protein interactions. , 2022, , 103-114.		1
621	Single-molecule FRET combined with electrokinetic trapping reveals real-time enzyme kinetics of individual F-ATP synthases. Nanoscale, 2022, 14, 2327-2336.	2.8	4
622	Real-time, single-molecule observation of biomolecular interactions inside nanophotonic zero mode waveguides. Nanotechnology, 2022, 33, 165101.	1.3	1
623	Linking function to global and local dynamics in an elevator-type transporter. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
624	Unraveling multi-state molecular dynamics in single-molecule FRET experiments. I. Theory of FRET-lines. Journal of Chemical Physics, 2022, 156, 141501.	1.2	23
625	The influence of Holliday junction sequence and dynamics on DNA crystal self-assembly. Nature Communications, 2022, 13, .	5.8	24
627	A Critical Review on the Sensing, Control, and Manipulation of Single Molecules on Optofluidic Devices. Micromachines, 2022, 13, 968.	1.4	3
628	Unsupervised recognition of components from the interaction of BSA with Fe cluster in different conditions utilizing 2D fluorescence spectroscopy. Scientific Reports, 2022, 12, .	1.6	3
629	Siteâ€specific Heterogeneity of Multiâ€domain Human Serum Albumin and its Origin: A Red Edge Excitation Shift Study^{â€}. Photochemistry and Photobiology, 2023, 99, 538-546.	1.3	5
630	Infrared nanospectroscopic imaging of DNA molecules on mica surface. Scientific Reports, 2022, 12, .	1.6	4

#	Article	IF	Citations
631	Binding affinity estimation from restrained umbrella sampling simulations. Nature Computational Science, 2023, 3, 59-70.	3.8	4
632	Diffusion-Enhanced FÃ¶rster Resonance Energy Transfer in Flexible Peptides: From the Haas-Steinberg Partial Differential Equation to a Closed Analytical Expression. Polymers, 2023, 15, 705.	2.0	2
634	Plasmon-Enhanced Fluorescence of Single Quantum Dots Immobilized in Optically Coupled Aluminum Nanoholes. Journal of Physical Chemistry Letters, 2023, 14, 2339-2346.	2.1	1
636	Single-Molecule Imaging of Enzymatic Reactions on DNA Origami. Methods in Molecular Biology, 2023, , 131-145.	0.4	0