## Takayuki Uchihashi

List of Publications by Year in descending order

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247 papers

8,541 citations

50276 46 h-index 83 g-index

263 all docs

docs citations

263

times ranked

263

6932 citing authors

#	Article	IF	CITATIONS
1	Shape-selective one-step synthesis of branched gold nanoparticles on the crystal surface of redox-active Pd <sup>II</sup> -macrocycles. Dalton Transactions, 2022, 51, 1318-1324.	3.3	3
2	Protein Needles Designed to Selfâ€Assemble through Needle Tip Engineering. Small, 2022, 18, e2106401.	10.0	8
3	Quantitative Visualization of the Interaction between Complement Component C1 and Immunoglobulin G: The Effect of CH1 Domain Deletion. International Journal of Molecular Sciences, 2022, 23, 2090.	4.1	1
4	Microtubule Preparation for Investigation with High-Speed Atomic Force Microscopy. Methods in Molecular Biology, 2022, 2430, 337-347.	0.9	1
5	The Lipid-Binding Defective Dynamin 2 Mutant in Charcot-Marie-Tooth Disease Impairs Proper Actin Bundling and Actin Organization in Glomerular Podocytes. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	3
6	Nanostructures, Thermoresponsiveness, and Assembly Mechanism of Hydrogel Microspheres during Aqueous Free-Radical Precipitation Polymerization. Langmuir, 2021, 37, 151-159.	3.5	17
7	Nanostructure and thermoresponsiveness of poly( <i>N</i> -isopropyl methacrylamide)-based hydrogel microspheres prepared <i>via</i> aqueous free radical precipitation polymerization. RSC Advances, 2021, 11, 13130-13137.	3.6	3
8	Single-Molecule Methods Applied to Circadian Proteins with Special Emphasis on Atomic Force Microscopy., 2021,, 147-178.		0
9	Non-close-packed arrangement of soft elastomer microspheres on solid substrates. RSC Advances, 2021, 11, 14562-14567.	3.6	4
10	Dynamic Assembly/Disassembly of Staphylococcus aureus FtsZ Visualized by High-Speed Atomic Force Microscopy. International Journal of Molecular Sciences, 2021, 22, 1697.	4.1	5
11	JRAB/MICAL-L2 undergoes liquid–liquid phase separation to form tubular recycling endosomes. Communications Biology, 2021, 4, 551.	4.4	5
12	Tardigrade Secretory-Abundant Heat-Soluble Protein Has a Flexible $\hat{l}^2$ -Barrel Structure in Solution and Keeps This Structure in Dehydration. Journal of Physical Chemistry B, 2021, 125, 9145-9154.	2.6	10
13	Reconstruction of Three-Dimensional Conformations of Bacterial ClpB from High-Speed Atomic-Force-Microscopy Images. Frontiers in Molecular Biosciences, 2021, 8, 704274.	3.5	10
14	Deformation of microtubules regulates translocation dynamics of kinesin. Science Advances, 2021, 7, eabf2211.	10.3	12
15	Construction of ferritin hydrogels utilizing subunit–subunit interactions. PLoS ONE, 2021, 16, e0259052.	2.5	1
16	Desiccation-induced fibrous condensation of CAHS protein from an anhydrobiotic tardigrade. Scientific Reports, 2021, 11, 21328.	3.3	38
17	Molecular Origin of the Anomalous pH Effect in Blue Proteorhodopsin. Journal of Physical Chemistry Letters, 2021, 12, 12225-12229.	4.6	1
18	High-speed near-field fluorescence microscopy combined with high-speed atomic force microscopy for biological studies. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129325.	2.4	25

#	Article	IF	Citations
19	Thermoresponsive Micellar Assembly Constructed from a Hexameric Hemoprotein Modified with $Poly(\langle i\rangle N\langle i\rangle -isopropylacrylamide)$ toward an Artificial Light-Harvesting System. Journal of the American Chemical Society, 2020, 142, 1822-1831.	13.7	57
20	Construction of a Hexameric Hemoprotein Sheet and Direct Observation of Dynamic Processes of Its Formation. Chemistry Letters, 2020, 49, 186-190.	1.3	7
21	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q. International Journal of Molecular Sciences, 2020, 21, 147.	4.1	13
22	Novel Babesia bovis exported proteins that modify properties of infected red blood cells. PLoS Pathogens, 2020, 16, e1008917.	4.7	15
23	Single-molecule level dynamic observation of disassembly of the apo-ferritin cage in solution. Physical Chemistry Chemical Physics, 2020, 22, 18562-18572.	2.8	14
24	Convergent evolution of processivity in bacterial and fungal cellulases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19896-19903.	7.1	31
25	Structural insights into the mechanism of rhodopsin phosphodiesterase. Nature Communications, 2020, 11, 5605.	12.8	30
26	Thermoresponsive structural changes of single poly(N-isopropyl acrylamide) hydrogel microspheres under densely packed conditions on a solid substrate. Polymer Journal, 2020, 52, 1137-1141.	2.7	7
27	Assembly Mechanism of a Supramolecular MS-Ring Complex To Initiate Bacterial Flagellar Biogenesis in <i>Vibrio</i> Species. Journal of Bacteriology, 2020, 202, .	2.2	16
28	Structural Dynamics of a Protein Domain Relevant to the Water-Oxidizing Complex in Photosystem II as Visualized by High-Speed Atomic Force Microscopy. Journal of Physical Chemistry B, 2020, 124, 5847-5857.	2.6	22
29	Recent advances in bioimaging with high-speed atomic force microscopy. Biophysical Reviews, 2020, 12, 363-369.	3.2	26
30	Dynamic behavior of an artificial protein needle contacting a membrane observed by high-speed atomic force microscopy. Nanoscale, 2020, 12, 8166-8173.	5.6	6
31	Dynamics of oligomer and amyloid fibril formation by yeast prion Sup35 observed by high-speed atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7831-7836.	7.1	36
32	Direct visualization of the conformational change of FUS/TLS upon binding to promoter-associated non-coding RNA. Chemical Communications, 2020, 56, 9134-9137.	4.1	6
33	Single-molecule imaging analysis reveals the mechanism of a high-catalytic-activity mutant of chitinase A from Serratia marcescens. Journal of Biological Chemistry, 2020, 295, 1915-1925.	3.4	12
34	Induced-Fit Pathway Accelerated Binding of Agitoxin-2 to A K+ Channel Imaged by HS-AFM. Biophysical Journal, 2020, 118, 236a.	0.5	0
35	Supramolecular tholos-like architecture constituted by archaeal proteins without functional annotation. Scientific Reports, 2020, 10, 1540.	3.3	8
36	Rad50 zinc hook functions as a constitutive dimerization module interchangeable with SMC hinge. Nature Communications, 2020, $11$ , $370$ .	12.8	24

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37	Schizorhodopsins: A family of rhodopsins from Asgard archaea that function as light-driven inward H <sup>+</sup> pumps. Science Advances, 2020, 6, eaaz2441.	10.3	65
38	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
39	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
40	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
41	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
42	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
43	Novel Babesia bovis exported proteins that modify properties of infected red blood cells., 2020, 16, e1008917.		0
44	The Fab portion of immunoglobulin G contributes to its binding to $Fcl^3$ receptor III. Scientific Reports, 2019, 9, 11957.	3.3	35
45	Protein uptake into individual hydrogel microspheres visualized by high-speed atomic force microscopy. Chemical Communications, 2019, 55, 10064-10067.	4.1	11
46	High-speed AFM reveals accelerated binding of agitoxin-2 to a K <sup>+</sup> channel by induced fit. Science Advances, 2019, 5, eaax0495.	10.3	19
47	Nonâ€Thermoresponsive Decananoâ€sized Domains in Thermoresponsive Hydrogel Microspheres Revealed by Temperatureâ€Controlled Highâ€Speed Atomic Force Microscopy. Angewandte Chemie, 2019, 131, 8901-8905.	2.0	4
48	Microtubule self-healing and defect creation investigated by in-line force measurements during high-speed atomic force microscopy imaging. Nanoscale, 2019, 11, 125-135.	5 <b>.</b> 6	27
49	A ring-shaped hemoprotein trimer thermodynamically controlled by the supramolecular heme–heme pocket interaction. Chemical Communications, 2019, 55, 1544-1547.	4.1	13
50	Dynamics of Inter-Molecular Interactions Between Single AÎ <sup>2</sup> 42 Oligomeric and Aggregate Species by High-Speed Atomic Force Microscopy. Journal of Molecular Biology, 2019, 431, 2687-2699.	4.2	14
51	Mutational and Combinatorial Control of Self-Assembling and Disassembling of Human Proteasome α Subunits. International Journal of Molecular Sciences, 2019, 20, 2308.	4.1	6
52	Nonâ€Thermoresponsive Decananoâ€sized Domains in Thermoresponsive Hydrogel Microspheres Revealed by Temperatureâ€Controlled Highâ€Speed Atomic Force Microscopy. Angewandte Chemie - International Edition, 2019, 58, 8809-8813.	13.8	33
53	Hydrogel Microellipsoids that Form Robust Stringâ€Like Assemblies at the Air/Water Interface. Angewandte Chemie, 2019, 131, 7372-7376.	2.0	2
54	Inner lumen proteins stabilize doublet microtubules in cilia and flagella. Nature Communications, 2019, 10, 1143.	12.8	110

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55	Metastable asymmetrical structure of a shaftless V $\cdot$ sub $\cdot$ 1 $\cdot$ 8sub $\cdot$ 1 motor. Science Advances, 2019, 5, eaau8149.	10.3	13
56	An Assessment of the Ability of Submicron- and Micron-Size Silicone Oil Droplets in Dropped Prefillable Syringes to Invoke Early- and Late-Stage Immune Responses. Journal of Pharmaceutical Sciences, 2019, 108, 2278-2287.	3.3	47
57	Construction of a Quadrangular Tetramer and a Cage-Like Hexamer from Three-Helix Bundle-Linked Fusion Proteins. ACS Synthetic Biology, 2019, 8, 1112-1120.	3.8	7
58	Hydrogel Microellipsoids that Form Robust Stringâ€Like Assemblies at the Air/Water Interface. Angewandte Chemie - International Edition, 2019, 58, 7294-7298.	13.8	19
59	Real-time Nanoscale Visualization of Biological Molecules at Work with High-speed Atomic Force Microscopy. , 2019, , .		0
60	Structural basis of nucleosome assembly by the Abo1 AAA+ÂATPase histone chaperone. Nature Communications, 2019, 10, 5764.	12.8	36
61	Crystal structure of heliorhodopsin. Nature, 2019, 574, 132-136.	27.8	71
62	Development of Wide-area Tip-scanning High-speed Atomic Force Microscopy., 2019,,.		0
63	Single-Unit Imaging of Membrane Protein-Embedded Nanodiscs from Two Oriented Sides by High-Speed Atomic Force Microscopy. Structure, 2019, 27, 152-160.e3.	3.3	17
64	Construction of a Triangleâ€6haped Trimer and a Tetrahedron Using an αâ€Helixâ€Inserted Circular Permutant of Cytochrome <i>c</i> <sub>555</sub> . Chemistry - an Asian Journal, 2018, 13, 964-967.	3.3	8
65	Insight into structural remodeling of the FlhA ring responsible for bacterial flagellar type III protein export. Science Advances, 2018, 4, eaao7054.	10.3	50
66	Quantum-dot antibody conjugation visualized at the single-molecule scale with high-speed atomic force microscopy. Colloids and Surfaces B: Biointerfaces, 2018, 167, 267-274.	5.0	11
67	Translating MOF chemistry into supramolecular chemistry: soluble coordination nanofibers showing efficient photon upconversion. Chemical Communications, 2018, 54, 6828-6831.	4.1	15
68	Sweeping of Adsorbed Therapeutic Protein on Prefillable Syringes Promotes Micron Aggregate Generation. Journal of Pharmaceutical Sciences, 2018, 107, 1521-1529.	3.3	30
69	Conversion of functionally undefined homopentameric protein PbaA into a proteasome activator by mutational modification of its C-terminal segment conformation. Protein Engineering, Design and Selection, 2018, 31, 29-36.	2.1	5
70	Negatively Charged Lipids Are Essential for Functional and Structural Switch of Human 2-Cys Peroxiredoxin II. Journal of Molecular Biology, 2018, 430, 602-610.	4.2	11
71	Structural properties determining low K+ affinity of the selectivity filter in the TWIK1 K+ channel. Journal of Biological Chemistry, 2018, 293, 6969-6984.	3.4	11
72	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.	2.4	45

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73	Rate constants, processivity, and productive binding ratio of chitinase A revealed by single-molecule analysis. Physical Chemistry Chemical Physics, 2018, 20, 3010-3018.	2.8	24
74	Direct Observation and Manipulation of Supramolecular Polymerization by Highâ€Speed Atomic Force Microscopy. Angewandte Chemie - International Edition, 2018, 57, 15465-15470.	13.8	38
75	Monitoring Thermoresponsive Morphological Changes in Individual Hydrogel Microspheres. ACS Omega, 2018, 3, 10836-10842.	3.5	28
76	Direct Observation and Manipulation of Supramolecular Polymerization by High‧peed Atomic Force Microscopy. Angewandte Chemie, 2018, 130, 15691-15696.	2.0	13
77	Oligomeric states of microbial rhodopsins determined by high-speed atomic force microscopy and circular dichroic spectroscopy. Scientific Reports, 2018, 8, 8262.	3.3	76
78	Dynamic clustering of dynamin-amphiphysin helices regulates membrane constriction and fission coupled with GTP hydrolysis. ELife, 2018, 7, .	6.0	38
79	Dynamic Observation of Kai Proteins by HS-AFM Reveals a Mechanism of the Robustness in the Cyanobacterial Circadian Oscillator. Biophysical Journal, 2018, 114, 68a.	0.5	0
80	Supramolecular Hemoprotein Assembly with a Periodic Structure Showing Heme–Heme Exciton Coupling. Journal of the American Chemical Society, 2018, 140, 10145-10148.	13.7	30
81	Visualization of Protein Dynamics using High-Speed Atomic Force Microscopy and Image Analysis. Journal of Computer Chemistry Japan, 2018, 17, 20-30.	0.1	1
82	Revealing circadian mechanisms of integration and resilience by visualizing clock proteins working in real time. Nature Communications, 2018, 9, 3245.	12.8	43
83	Dynamic structural states of ClpB involved in its disaggregation function. Nature Communications, 2018, 9, 2147.	12.8	55
84	Optimum Substrates for Imaging Biological Molecules with High-Speed Atomic Force Microscopy. Methods in Molecular Biology, 2018, 1814, 159-179.	0.9	14
85	High-Speed Atomic Force Microscopy. , 2018, , 263-267.		0
86	Oriented Reconstitution of the Full-Length KcsA Potassium Channel in a Lipid Bilayer for AFM Imaging. Journal of Physical Chemistry Letters, 2017, 8, 785-793.	4.6	24
87	High-Speed Atomic Force Microscopy Reveals Loss of Nuclear Pore Resilience as a Dying Code in Colorectal Cancer Cells. ACS Nano, 2017, 11, 5567-5578.	14.6	46
88	Visualisation of a flexible modular structure of the ER folding-sensor enzyme UGGT. Scientific Reports, 2017, 7, 12142.	3.3	36
89	Fast Adsorption of Soft Hydrogel Microspheres on Solid Surfaces in Aqueous Solution. Angewandte Chemie, 2017, 129, 12314-12317.	2.0	8
90	Fast Adsorption of Soft Hydrogel Microspheres on Solid Surfaces in Aqueous Solution. Angewandte Chemie - International Edition, 2017, 56, 12146-12149.	13.8	40

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91	Dedifferentiated liposarcoma in the maxillary gingiva: A clinical report and review of the literature. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2017, 29, 542-545.	0.3	1
92	High-Resolution Imaging of a Single Gliding Protofilament of Tubulins by HS-AFM. Scientific Reports, 2017, 7, 6166.	3.3	22
93	Interdomain flip-flop motion visualized in flavocytochrome cellobiose dehydrogenase using high-speed atomic force microscopy during catalysis. Chemical Science, 2017, 8, 6561-6565.	7.4	26
94	Two-step process for disassembly mechanism of proteasome $\hat{l}\pm7$ homo-tetradecamer by $\hat{l}\pm6$ revealed by high-speed atomic force microscopy. Scientific Reports, 2017, 7, 15373.	3.3	14
95	Real-space and real-time dynamics of CRISPR-Cas9 visualized by high-speed atomic force microscopy. Nature Communications, 2017, 8, 1430.	12.8	184
96	Na <sup>+</sup> -induced structural transition of MotPS for stator assembly of the <i>Bacillus</i> flagellar motor. Science Advances, 2017, 3, eaao4119.	10.3	44
97	High-speed atomic force microscopy imaging of live mammalian cells. Biophysics and Physicobiology, 2017, 14, 127-135.	1.0	32
98	A natural light-driven inward proton pump. Nature Communications, 2016, 7, 13415.	12.8	124
99	Visualization of Living Cells by High-speed Atomic Force Microscopy. Seibutsu Butsuri, 2016, 56, 159-161.	0.1	0
100	Functional extension of high-speed AFM for wider biological applications. Ultramicroscopy, 2016, 160, 182-196.	1.9	62
101	Method of mechanical holding of cantilever chip for tip-scan high-speed atomic force microscope. Review of Scientific Instruments, 2015, 86, 063703.	1.3	9
102	Scanning Probe Microscopy. Japanese Journal of Applied Physics, 2015, 54, 08L001.	1.5	0
103	Real-Time Dynamic Adsorption Processes of Cytochrome c on an Electrode Observed through Electrochemical High-Speed Atomic Force Microscopy. PLoS ONE, 2015, 10, e0116685.	2.5	8
104	Probing Structural Dynamics of an Artificial Protein Cage Using High-Speed Atomic Force Microscopy. Nano Letters, 2015, 15, 1331-1335.	9.1	29
105	Long-tip high-speed atomic force microscopy for nanometer-scale imaging in live cells. Scientific Reports, 2015, 5, 8724.	3.3	89
106	Potential Prepore Trimer Formation by the Bacillus thuringiensis Mosquito-specific Toxin. Journal of Biological Chemistry, 2015, 290, 20793-20803.	3.4	30
107	Assembling of a Pore-Forming Toxin on a Model Membrane. Biophysical Journal, 2014, 106, 97a.	0.5	О
108	Single-molecule Imaging Analysis of Elementary Reaction Steps of Trichoderma reesei Cellobiohydrolase I (Cel7A) Hydrolyzing Crystalline Cellulose Iα and IIII. Journal of Biological Chemistry, 2014, 289, 14056-14065.	3.4	50

7

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109	Trade-off between Processivity and Hydrolytic Velocity of Cellobiohydrolases at the Surface of Crystalline Cellulose. Journal of the American Chemical Society, 2014, 136, 4584-4592.	13.7	77
110	Filming Biomolecular Processes by High-Speed Atomic Force Microscopy. Chemical Reviews, 2014, 114, 3120-3188.	47.7	320
111	Two-way traffic of glycoside hydrolase family 18 processive chitinases on crystalline chitin. Nature Communications, 2014, 5, 3975.	12.8	82
112	Role of trimer–trimer interaction of bacteriorhodopsin studied by optical spectroscopy and high-speed atomic force microscopy. Journal of Structural Biology, 2013, 184, 2-11.	2.8	45
113	Real-Time Visualization of a Pore-Forming Toxin Assembling on a Model Membrane. Biophysical Journal, 2013, 104, 360a.	0.5	O
114	High-speed atomic force microscope combined with single-molecule fluorescence microscope. Review of Scientific Instruments, 2013, 84, 073706.	1.3	65
115	Real-Time Visualization of Assembling of a Sphingomyelin-Specific Toxin on Planar Lipid Membranes. Biophysical Journal, 2013, 105, 1397-1405.	0.5	64
116	A case of malignant melanoma discovered as a result of metastatic disease of the temporomandibular joint. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2013, 25, 74-78.	0.3	2
117	High-Speed AFM and Applications to Biomolecular Systems. Annual Review of Biophysics, 2013, 42, 393-414.	10.0	241
118	Wide-area scanner for high-speed atomic force microscopy. Review of Scientific Instruments, 2013, 84, 053702.	1.3	90
119	1P305 Combined system of High-speed-AFM and optical microscopy(27. Bioimaging,Poster). Seibutsu Butsuri, 2013, 53, S156.	0.1	0
120	1P157 High-Speed-AFM Observation of Processive Movement of Cytoplasmic Dynein(11.Molecular) Tj ETQq0 0 0 0 S131.	rgBT /Over 0.1	rlock 10 Tf 5 0
121	High-Speed AFM and Imaging of Biomolecular Processes. , 2013, , .		3
122	Real Time Single Molecular Imaging of Enzymatic Degradation of Crystalline Cellulose by High-speed Atomic Force Microscopy. Seibutsu Butsuri, 2013, 53, 140-144.	0.1	0
123	High-Speed Atomic Force Microscopy. Japanese Journal of Applied Physics, 2012, 51, 08KA02.	1.5	15
124	3PS004 High-Speed-AFM Observation of Processive Movement of Cytoplasmic Dynein(The 50th Annual) Tj ETQq0	08.9 rgBT /	/Overlock 10
125	3PS016 Development of "hopping-mode" high speed atomic force microscopy (AFM)(The 50th Annual) Tj ETQq1 I	1 0.78431 0.1	4 rgBT /Ove
126	3F1058 OBSERVATION OF TRANSMEMBRANE PROTEIN BY HIGH SPEED ATOMIC FORCE MICROSCOPY: BACTERIORHODOPSIN D85S MUTANT, A CHLORIDE PUMP (Membrane Proteins, Oral Presentation). Seibutsu Butsuri, 2012, 52, S67.	0.1	0

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127	2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G1534 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G154 Single molecular observation of CFTR channels by high speed AFM(Biological & December 2G154 Single molecular observation ob	0.784314 0.1	rgBT /Over 0
128	Guide to video recording of structure dynamics and dynamic processes of proteins by high-speed atomic force microscopy. Nature Protocols, 2012, 7, 1193-1206.	12.0	246
129	Direct Visualization of Cellobiohydrolase on Crystalline Cellulose using High-Speed Atomic Force Microscopy. Biophysical Journal, 2012, 102, 585a-586a.	0.5	O
130	Visualization of Cellobiohydrolase I from Trichoderma reesei Moving on Crystalline Cellulose Using High-Speed Atomic Force Microscopy. Methods in Enzymology, 2012, 510, 169-182.	1.0	24
131	Single-Molecule Imaging on Living Bacterial Cell Surface by High-Speed AFM. Journal of Molecular Biology, 2012, 422, 300-309.	4.2	114
132	Direct Observation of Rotary Catalysis of Rotorless F1-ATPase by High-Speed Atomic Force Microscopy. Biophysical Journal, 2012, 102, 600a.	0.5	0
133	High-Speed Atomic Force Microscopy. Japanese Journal of Applied Physics, 2012, 51, 08KA02.	1.5	20
134	Nanovisualization of Proteins in Action Using High-Speed AFM., 2012, , 119-147.		0
135	Direct observation of surfactant aggregate behavior on a mica surface using high-speed atomic force microscopy. Chemical Communications, 2011, 47, 4974.	4.1	39
136	Traffic Jams Reduce Hydrolytic Efficiency of Cellulase on Cellulose Surface. Science, 2011, 333, 1279-1282.	12.6	501
137	3K1322 Live cell surface imaging of magnetic bacteria at molecular resolution by high speed AFM(Cell) Tj ETQq1 S145-S146.	1 0.784314 0.1	4 rgBT /Ove O
138	High-Speed Atomic Force Microscopy Reveals Rotary Catalysis of Rotorless F <sub>1</sub> -ATPase. Science, 2011, 333, 755-758.	12.6	420
139	Structural Changes in Bacteriorhodopsin in Response to Alternate Illumination Observed by Highâ€Speed Atomic Force Microscopy. Angewandte Chemie - International Edition, 2011, 50, 4410-4413.	13.8	54
140	High-Speed Atomic Force Microscopy and Biomolecular Processes. Methods in Molecular Biology, 2011, 736, 285-300.	0.9	15
141	High-Speed Atomic Force Microscopy for Dynamic Biological Imaging. , 2011, , 163-184.		O
142	2SE1500 Visualization of dynamic molecular processes in photoactivated Bacteriorhodopsin by high-speed AFM(2SE Overviewing Multilateral Approaches to Rhodopsin Systems,The 48th Annual) Tj ETQq0 0 0 0	rg <b>6.1</b> 1/Over	loock 10 Tf 5
143	2P279 1A1520 Role of aromatic residue for inter-molecular interaction between bacteriorhodopsin trimer studied by high-speed AFM(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S132.	0.1	O
144	2P325 Single molecular observations of processive glycosidases by high-speed atomic force microscopy(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S140.	0.1	0

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145	High-speed atomic force microscopy shows dynamic molecular processes in photoactivated bacteriorhodopsin. Nature Nanotechnology, 2010, 5, 208-212.	31.5	292
146	1P177 Observation of conformational change of $\hat{l}^2$ subunit in $\hat{l}\pm 3\hat{l}^2-3$ subcomplex of F_1-ATPase by high-speed AFM(Molecular motor,The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S50.	0.1	0
147	Visualization and structural analysis of the bacterial magnetic organelle magnetosome using atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9382-9387.	7.1	55
148	High-Speed Atomic Force Microscopy Techniques for Observing Dynamic Biomolecular Processes. Methods in Enzymology, 2010, 475, 541-564.	1.0	66
149	Biophysics and Atomic Force Microscopy—Present and Future—. Seibutsu Butsuri, 2010, 50, 220-221.	0.1	0
150	Acute inflammation in horizontal incompletely impacted third molar with radiolucency in the elderly. Clinical Interventions in Aging, 2009, 4, 337.	2.9	7
151	Dynamics of bacteriorhodopsin 2D crystal observed by high-speed atomic force microscopy. Journal of Structural Biology, 2009, 167, 153-158.	2.8	93
152	3P-256 Visualization of subsurface structures by high-speed ultrasonic force microscopy(Bioimaging,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S194.	0.1	0
153	2P-274 Development of tip-scan type of high-speed AFM for cell imaging (Bioengineering, The 47th Annual) Tj ETQ	q1.10.78	4314 rgBT /(
154	3P-257 Enhancement of detection sensitivity of tip-sample interaction in high-speed AFM(Bioimaging,The) Tj ETQ	q0,0 0 rg[	3T/Overlock
155	2P-208 Direct observation of rhodopsin dynamics in disc membrane by high-speed AFM(Photobiology:Vision & Direct of Tj ETQq. AFM(Photobiology:Vision & Direct	l <b>bû.</b> 7843	31 <del>4</del> rgBT /0\
156	High-Speed Atomic Force Microscopy. , 2009, , 487.		1
157	High-speed AFM and nano-visualization of biomolecular processes. Pflugers Archiv European Journal of Physiology, 2008, 456, 211-225.	2.8	224
158	Visualization of Intrinsically Disordered Regions of Proteins by Highâ€Speed Atomic Force Microscopy. ChemPhysChem, 2008, 9, 1859-1866.	2,1	95
159	High-speed atomic force microscopy for nano-visualization of dynamic biomolecular processes. Progress in Surface Science, 2008, 83, 337-437.	8.3	493
160	Anisotropic diffusion of point defects in a two-dimensional crystal of streptavidin observed by high-speed atomic force microscopy. Nanotechnology, 2008, 19, 384009.	2.6	53
161	High resonance frequency force microscope scanner using inertia balance support. Applied Physics Letters, 2008, 92, 243119.	3.3	65
162	3P-084 Direct observation of Bacteriorhodopsin molecular interaction in purple membrane by high-speed AFM(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S140.	0.1	0

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