

Noriyuki Kodera

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9517831/publications.pdf>

Version: 2024-02-01

98
papers

5,345
citations

147801

31
h-index

88630

70
g-index

110
all docs

110
docs citations

110
times ranked

4454
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-speed atomic force microscope for studying biological macromolecules. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12468-12472.	7.1	1,003
2	Video imaging of walking myosin V by high-speed atomic force microscopy. Nature, 2010, 468, 72-76.	27.8	773
3	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
4	High-Speed AFM and Applications to Biomolecular Systems. Annual Review of Biophysics, 2013, 42, 393-414.	10.0	241
5	High-speed AFM and nano-visualization of biomolecular processes. Pflugers Archiv European Journal of Physiology, 2008, 456, 211-225.	2.8	224
6	Real-space and real-time dynamics of CRISPR-Cas9 visualized by high-speed atomic force microscopy. Nature Communications, 2017, 8, 1430.	12.8	184
7	Dynamic proportional-integral-differential controller for high-speed atomic force microscopy. Review of Scientific Instruments, 2006, 77, 083704.	1.3	177
8	Active damping of the scanner for high-speed atomic force microscopy. Review of Scientific Instruments, 2005, 76, 053708.	1.3	166
9	A High-Speed Atomic Force Microscope for Studying Biological Macromolecules in Action. Japanese Journal of Applied Physics, 2002, 41, 4851-4856.	1.5	125
10	A High-speed Atomic Force Microscope for Studying Biological Macromolecules in Action. ChemPhysChem, 2003, 4, 1196-1202.	2.1	118
11	Cofilin-induced unidirectional cooperative conformational changes in actin filaments revealed by high-speed atomic force microscopy. ELife, 2015, 4, .	6.0	117
12	High-speed Atomic Force Microscopy for Capturing Dynamic Behavior of Protein Molecules at Work. E-Journal of Surface Science and Nanotechnology, 2005, 3, 384-392.	0.4	98
13	IgGs are made for walking on bacterial and viral surfaces. Nature Communications, 2014, 5, 4394.	12.8	97
14	Direct visualization of translational GTPase factor pool formed around the archaeal ribosomal P-stalk by high-speed AFM. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32386-32394.	7.1	90
15	High-speed atomic force microscopy for observing dynamic biomolecular processes. Journal of Molecular Recognition, 2007, 20, 448-458.	2.1	74
16	High-Speed Atomic Force Microscopy for Studying the Dynamic Behavior of Protein Molecules at Work. Japanese Journal of Applied Physics, 2006, 45, 1897-1903.	1.5	72
17	Structural and dynamics analysis of intrinsically disordered proteins by high-speed atomic force microscopy. Nature Nanotechnology, 2021, 16, 181-189.	31.5	69
18	High-Speed Atomic Force Microscopy Techniques for Observing Dynamic Biomolecular Processes. Methods in Enzymology, 2010, 475, 541-564.	1.0	66

#	ARTICLE	IF	CITATIONS
19	Tip-sample distance control using photothermal actuation of a small cantilever for high-speed atomic force microscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 083702.	1.3	65
20	High resonance frequency force microscope scanner using inertia balance support. <i>Applied Physics Letters</i> , 2008, 92, 243119.	3.3	65
21	Contact-Mode High-Resolution High-Speed Atomic Force Microscopy Movies of the Purple Membrane. <i>Biophysical Journal</i> , 2009, 97, 1354-1361.	0.5	58
22	Anisotropic diffusion of point defects in a two-dimensional crystal of streptavidin observed by high-speed atomic force microscopy. <i>Nanotechnology</i> , 2008, 19, 384009.	2.6	53
23	Insight into structural remodeling of the FlhA ring responsible for bacterial flagellar type III protein export. <i>Science Advances</i> , 2018, 4, eaao7054.	10.3	50
24	High-Speed Atomic Force Microscopy Reveals Loss of Nuclear Pore Resilience as a Dying Code in Colorectal Cancer Cells. <i>ACS Nano</i> , 2017, 11, 5567-5578.	14.6	46
25	Na ⁺ -induced structural transition of MotPS for stator assembly of the <i>Bacillus</i> flagellar motor. <i>Science Advances</i> , 2017, 3, eaao4119.	10.3	44
26	Structure of the UHRF1 Tandem Tudor Domain Bound to a Methylated Non-histone Protein, LIG1, Reveals Rules for Binding and Regulation. <i>Structure</i> , 2019, 27, 485-496.e7.	3.3	41
27	Allosteric regulation by cooperative conformational changes of actin filaments drives mutually exclusive binding with cofilin and myosin. <i>Scientific Reports</i> , 2016, 6, 35449.	3.3	40
28	Free Energy Landscape and Dynamics of Supercoiled DNA by High-Speed Atomic Force Microscopy. <i>ACS Nano</i> , 2018, 12, 11907-11916.	14.6	39
29	Structural Insights into the Substrate Specificity Switch Mechanism of the Type III Protein Export Apparatus. <i>Structure</i> , 2019, 27, 965-976.e6.	3.3	39
30	CYK4 Promotes Antiparallel Microtubule Bundling by Optimizing MKLP1 Neck Conformation. <i>PLoS Biology</i> , 2015, 13, e1002121.	5.6	37
31	Multiple Interactions of the Intrinsically Disordered Region between the Helicase and Nuclease Domains of the Archaeal Hef Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 21627-21639.	3.4	36
32	Dynamics of oligomer and amyloid fibril formation by yeast prion Sup35 observed by high-speed atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7831-7836.	7.1	36
33	Feed-Forward Compensation for High-Speed Atomic Force Microscopy Imaging of Biomolecules. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 1904-1908.	1.5	33
34	The path to visualization of walking myosin V by high-speed atomic force microscopy. <i>Biophysical Reviews</i> , 2014, 6, 237-260.	3.2	29
35	Two-Ball Structure of the Flagellar Hook-Length Control Protein FliK as Revealed by High-Speed Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2015, 427, 406-414.	4.2	29
36	Development of high-speed ion conductance microscopy. <i>Review of Scientific Instruments</i> , 2019, 90, 123704.	1.3	29

#	ARTICLE	IF	CITATIONS
37	Diversity of physical properties of bacterial extracellular membrane vesicles revealed through atomic force microscopy phase imaging. <i>Nanoscale</i> , 2020, 12, 7950-7959.	5.6	29
38	Self- and Cross-Seeding on α -Synuclein Fibril Growth Kinetics and Structure Observed by High-Speed Atomic Force Microscopy. <i>ACS Nano</i> , 2020, 14, 9979-9989.	14.6	28
39	Phosphorylation-Coupled Intramolecular Dynamics of Unstructured Regions in Chromatin Remodeler FACT. <i>Biophysical Journal</i> , 2013, 104, 2222-2234.	0.5	26
40	High-speed atomic force microscopy reveals strongly polarized movement of clostridial collagenase along collagen fibrils. <i>Scientific Reports</i> , 2016, 6, 28975.	3.3	26
41	High-Speed AFM Reveals Molecular Dynamics of Human Influenza A Hemagglutinin and Its Interaction with Exosomes. <i>Nano Letters</i> , 2020, 20, 6320-6328.	9.1	25
42	Real-Time Monitoring of Lipid Exchange via Fusion of Peptide Based Lipid-Nanodiscs. <i>Chemistry of Materials</i> , 2018, 30, 3204-3207.	6.7	23
43	Spatiotemporally tracking of nano-biofilaments inside the nuclear pore complex core. <i>Biomaterials</i> , 2020, 256, 120198.	11.4	23
44	High-Resolution Imaging of a Single Gliding Protofilament of Tubulins by HS-AFM. <i>Scientific Reports</i> , 2017, 7, 6166.	3.3	22
45	Visualizing dynamic actin cross-linking processes driven by the actin-binding protein anillin. <i>FEBS Letters</i> , 2020, 594, 1237-1247.	2.8	22
46	An ultra-wide scanner for large-area high-speed atomic force microscopy with megapixel resolution. <i>Scientific Reports</i> , 2021, 11, 13003.	3.3	22
47	Visualization of Mobility by Atomic Force Microscopy. , 2012, 896, 57-69.		20
48	High-Resolution Imaging of Myosin Motor in Action by a High-Speed Atomic Force Microscope. <i>Advances in Experimental Medicine and Biology</i> , 2003, 538, 119-127.	1.6	20
49	High-Speed Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KA02.	1.5	20
50	Single-Unit Imaging of Membrane Protein-Embedded Nanodiscs from Two Oriented Sides by High-Speed Atomic Force Microscopy. <i>Structure</i> , 2019, 27, 152-160.e3.	3.3	17
51	Single-molecule imaging of photodegradation reaction in a chiral helical π -conjugated polymer chain. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4103-4107.	2.3	16
52	Direct visualization of avian influenza H5N1 hemagglutinin precursor and its conformational change by high-speed atomic force microscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129313.	2.4	16
53	Visualization of intrinsically disordered proteins by high-speed atomic force microscopy. <i>Current Opinion in Structural Biology</i> , 2022, 72, 260-266.	5.7	16
54	High-Speed Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KA02.	1.5	15

#	ARTICLE	IF	CITATIONS
55	Chained Structure of Dimeric F ₁ -like ATPase in <i>Mycoplasma mobile</i> Gliding Machinery. <i>MBio</i> , 2021, 12, e0141421.	4.1	15
56	An ultrafast piezoelectric Z-scanner with a resonance frequency above 1.1 MHz for high-speed atomic force microscopy. <i>Review of Scientific Instruments</i> , 2022, 93, 013701.	1.3	15
57	High-Speed Atomic Force Microscopy Reveals Spatiotemporal Dynamics of Histone Protein H2A Involution by DNA Inchworming. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3837-3846.	4.6	14
58	Optimum Substrates for Imaging Biological Molecules with High-Speed Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1814, 159-179.	0.9	14
59	Molecular and Functional Analysis of Pore-Forming Toxin Monolysin From Entomopathogenic Bacterium <i>Pseudomonas entomophila</i> . <i>Frontiers in Immunology</i> , 2020, 11, 520.	4.8	13
60	Millisecond Conformational Dynamics of Skeletal Myosin II Power Stroke Studied by High-Speed Atomic Force Microscopy. <i>ACS Nano</i> , 2021, 15, 2229-2239.	14.6	13
61	Ultrastructure of influenza virus ribonucleoprotein complexes during viral RNA synthesis. <i>Communications Biology</i> , 2021, 4, 858.	4.4	13
62	Nano-Scale Alignment of Proteins on a Flexible DNA Backbone. <i>PLoS ONE</i> , 2012, 7, e52534.	2.5	12
63	Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18064-18078.	8.0	12
64	Negatively Charged Lipids Are Essential for Functional and Structural Switch of Human 2-Cys Peroxiredoxin II. <i>Journal of Molecular Biology</i> , 2018, 430, 602-610.	4.2	11
65	Movements of <i>Mycoplasma mobile</i> Gliding Machinery Detected by High-Speed Atomic Force Microscopy. <i>MBio</i> , 2021, 12, e0004021.	4.1	11
66	Single-Molecule Imaging of a Micro-Brownian Motion of a Chiral Helical β -Conjugated Polymer as a Molecular Spring Driven by Thermal Fluctuations. <i>Chemistry Letters</i> , 2009, 38, 690-691.	1.3	9
67	Resolving the data asynchronicity in high-speed atomic force microscopy measurement via the Kalman Smoother. <i>Scientific Reports</i> , 2020, 10, 18393.	3.3	9
68	Native cyclase-associated protein and actin from <i>Xenopus laevis</i> oocytes form a unique 4:4 complex with a tripartite structure. <i>Journal of Biological Chemistry</i> , 2021, 296, 100649.	3.4	9
69	High-speed atomic force microscopy reveals a three-state elevator mechanism in the citrate transporter CitS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
70	Architecture of zero-latency ultrafast amplitude detector for high-speed atomic force microscopy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	8
71	Single Molecular Imaging of a micro-Brownian Motion and a Bond Scission of a Supramolecular Chiral β -Conjugated Polymer as a Molecular Bearing Driven by Thermal Fluctuations. <i>Chemistry Letters</i> , 2007, 36, 1378-1379.	1.3	7
72	Macrocyclic Peptide-Conjugated Tip for Fast and Selective Molecular Recognition Imaging by High-Speed Atomic Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54817-54829.	8.0	7

#	ARTICLE	IF	CITATIONS
73	Direct Imaging of Walking Myosin V by High-Speed Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1805, 103-122.	0.9	5
74	Modeling of DNA binding to the condensin hinge domain using molecular dynamics simulations guided by atomic force microscopy. <i>PLoS Computational Biology</i> , 2021, 17, e1009265.	3.2	4
75	Unconventional Imaging Methods to Capture Transient Structures during Actomyosin Interaction. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1402.	4.1	3
76	High-Speed Atomic Force Microscopy to Study Myosin Motility. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1239, 127-152.	1.6	3
77	Extracellular Vesicles Contribute to the Metabolism of Transthyretin Amyloid in Hereditary Transthyretin Amyloidosis. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 839917.	3.5	2
78	Uni-directional Propagation of Structural Changes in Actin Filaments. , 2018, , 157-177.		1
79	Video Imaging of Protein Molecules in Action by High-speed Atomic Force Microscopy. <i>Seibutsu Butsuri</i> , 2011, 51, 022-025.	0.1	1
80	1P070 Single-molecule imaging of chaperonin GroEL-GroES dynamics using high-speed atomic force microscopy(2. Protein function (I),Poster Session,Abstract,Meeting Program of EABS & BSI 2006). <i>Seibutsu Butsuri</i> , 2006, 46, S164.	0.1	0
81	2P534 Direct driving of the high-speed AFM cantilever by photo-thermal expansion toward wide-Rate imaging of Biomolecules(52. Bio-imaging,Poster Session,Abstract,Meeting Program of EABS & BSI) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T	0.1	0
82	3P289 A high-speed scanner and its active damping for high-speed AFM(Bioimaging,Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.1	0
83	3P290 Improvement of high-speed AFM scanner(Bioimaging,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S275.	0.1	0
84	2P134 Structural dynamics of acto-myosin V revealed by high-speed AFM(Molecular motors,Oral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.1	0
85	1P-045 High-speed AFM visualization of substrate-protein binding to and release from chaperonin GroEL(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S27-S28.	0.1	0
86	1P-136 Detailed analysis of actomyosin V motion visualized by high-speed atomic force microscopy(The) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.1	0
87	1P-166 Association Manner of Actin-Myosin V Depending on the Chemical States(The 46th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T	0.1	0
88	1P-316 Speeding up the high-speed AFM by improving the scanner(The 46th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.1	0
89	2P-025 Direct observation of GroEL-substrate complexes by high-speed atomic force microscopy(Protein:Structure & Function,The 47th Annual Meeting of the Biophysical Society of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T	0.1	0
90	2P093 Observation of the phosphorylated intrinsically disordered region of FACT with high-speed AFM(The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010, 50, S98.	0.1	0

#	ARTICLE	IF	CITATIONS
91	2P094 Direct visualization of intrinsically disordered proteins PQBP-1 and FliK using high-speed atomic force microscopy(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S98.	0.1	0
92	Antibody Movement on Regular Antigen Clusters: Fab Arms are made for Walking. Biophysical Journal, 2013, 104, 381a.	0.5	0
93	Video Imaging of Cofilin-Induced Actin Filament Severing by High Speed AFM. Biophysical Journal, 2014, 106, 163a.	0.5	0
94	Video-rate High-speed Atomic Force Microscopy for Biological Sciences. Journal of the Vacuum Society of Japan, 2008, 51, 783-788.	0.3	0
95	Nanovisualization of Proteins in Action Using High-Speed AFM. , 2012, , 119-147.		0
96	10.1063/5.0067224.1. , 2021, , .		0
97	10.1063/5.0072722.1. , 2022, , .		0
98	High-speed Atomic Force Microscopy Observation of Internal Structure Movements in Living Mycoplasma. Bio-protocol, 2022, 12, e4344.	0.4	0