

Christian Rankl

List of Publications by Year in descending order

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47
papers

1,874
citations

279487

23
h-index

253896

43
g-index

47
all docs

47
docs citations

47
times ranked

2209
citing authors

#	ARTICLE	IF	CITATIONS
1	A New, Simple Method for Linking of Antibodies to Atomic Force Microscopy Tips. <i>Bioconjugate Chemistry</i> , 2007, 18, 1176-1184.	1.8	242
2	Multiple receptors involved in human rhinovirus attachment to live cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17778-17783.	3.3	159
3	Linking of Sensor Molecules with Amino Groups to Amino-Functionalized AFM Tips. <i>Bioconjugate Chemistry</i> , 2011, 22, 1239-1248.	1.8	145
4	Influenza virus binds its host cell using multiple dynamic interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13626-13631.	3.3	119
5	Interlaboratory round robin on cantilever calibration for AFM force spectroscopy. <i>Ultramicroscopy</i> , 2011, 111, 1659-1669.	0.8	110
6	Desmocollin 3-mediated Binding Is Crucial for Keratinocyte Cohesion and Is Impaired in Pemphigus. <i>Journal of Biological Chemistry</i> , 2009, 284, 30556-30564.	1.6	108
7	Single Molecule Recognition between Cytochrome C 551 and Gold-Immobilized Azurin by Force Spectroscopy. <i>Biophysical Journal</i> , 2005, 89, 2783-2791.	0.2	82
8	Functionalization of Probe Tips and Supports for Single-Molecule Recognition Force Microscopy. <i>Topics in Current Chemistry</i> , 2008, 285, 29-76.	4.0	75
9	Recognition Imaging and Highly Ordered Molecular Templating of Bacterial S-Layer Nanoarrays Containing Affinity-Tags. <i>Nano Letters</i> , 2008, 8, 4312-4319.	4.5	66
10	Probing Binding Pocket of Serotonin Transporter by Single Molecular Force Spectroscopy on Living Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 105-113.	1.6	63
11	Dynamic force microscopy imaging of native membranes. <i>Ultramicroscopy</i> , 2003, 97, 229-237.	0.8	62
12	Hydrodynamic damping of a magnetically oscillated cantilever close to a surface. <i>Ultramicroscopy</i> , 2004, 100, 301-308.	0.8	52
13	Imaging morphological details and pathological differences of red blood cells using tapping-mode AFM. <i>Biological Chemistry</i> , 2004, 385, 955-60.	1.2	49
14	Quantitative sub-surface and non-contact imaging using scanning microwave microscopy. <i>Nanotechnology</i> , 2015, 26, 135701.	1.3	47
15	Free Energy of Membrane Protein Unfolding Derived from Single-Molecule Force Measurements. <i>Biophysical Journal</i> , 2007, 93, 930-937.	0.2	45
16	Dynamic force microscopy imaging of plasmid DNA and viral RNA. <i>Biomaterials</i> , 2007, 28, 2403-2411.	5.7	39
17	Calibrated complex impedance of CHO cells and <i>E. coli</i> bacteria at GHz frequencies using scanning microwave microscopy. <i>Nanotechnology</i> , 2016, 27, 135702.	1.3	36
18	Twelve receptor molecules attach per viral particle of human rhinovirus serotype 2 via multiple modules. <i>FEBS Letters</i> , 2004, 568, 99-104.	1.3	33

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19	Visualization of Single Receptor Molecules Bound to Human Rhinovirus under Physiological Conditions. <i>Structure</i> , 2005, 13, 1247-1253.	1.6	30
20	Characterization of Enhanced Monovalent and Bivalent Thrombin DNA Aptamer Binding Using Single Molecule Force Spectroscopy. <i>Biophysical Journal</i> , 2011, 101, 1781-1787.	0.2	29
21	Nanopharmacological Force Sensing to Reveal Allosteric Coupling in Transporter Binding Sites. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1719-1722.	7.2	29
22	HDL particles incorporate into lipid bilayers – a combined AFM and single molecule fluorescence microscopy study. <i>Scientific Reports</i> , 2017, 7, 15886.	1.6	29
23	Broadband near-infrared hyperspectral single pixel imaging for chemical characterization. <i>Optics Express</i> , 2019, 27, 12666.	1.7	25
24	Phase-contrast THz-CT for non-destructive testing. <i>Optics Express</i> , 2021, 29, 15711.	1.7	21
25	Binding Strength and Dynamics of Invariant Natural Killer Cell T Cell Receptor/CD1d-Glycosphingolipid Interaction on Living Cells by Single Molecule Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2011, 286, 15973-15979.	1.6	20
26	Atomic Force Microscopy–Derived Nanoscale Chip for the Detection of Human Pathogenic Viruses. <i>Small</i> , 2008, 4, 847-854.	5.2	17
27	Forces and Dynamics of Glucose and Inhibitor Binding to Sodium Glucose Co-transporter SGLT1 Studied by Single Molecule Force Spectroscopy. <i>Journal of Biological Chemistry</i> , 2014, 289, 21673-21683.	1.6	17
28	Determination of the Kinetic On- and Off-Rate of Single Virus–Cell Interactions. <i>Methods in Molecular Biology</i> , 2011, 736, 197-210.	0.4	16
29	Detection of corneodesmosin on the surface of stratum corneum using atomic force microscopy. <i>Experimental Dermatology</i> , 2010, 19, 1014-1019.	1.4	15
30	Dynamic force microscopy for imaging of viruses under physiological conditions. <i>Biological Procedures Online</i> , 2004, 6, 120-128.	1.4	14
31	Highly accurate THz-CT including refraction effects. <i>Optics Express</i> , 2022, 30, 3684.	1.7	11
32	Accuracy Estimation in Force Spectroscopy Experiments. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5536.	0.8	10
33	Force-Induced Lysozyme–HyHEL5 Antibody Dissociation and Its Analysis by Means of a Cooperative Binding Model. <i>Biophysical Journal</i> , 2010, 99, 323-332.	0.2	8
34	Single-Molecule Analysis of the Recognition Forces Underlying Nucleo–Cytoplasmic Transport. <i>Angewandte Chemie</i> , 2013, 125, 10546-10549.	1.6	7
35	Interaction of vascular endothelial growth factor and heparin quantified by single molecule force spectroscopy. <i>Nanoscale</i> , 2020, 12, 11927-11935.	2.8	7
36	Spectral-Coding-Based Compressive Single-Pixel NIR Spectroscopy in the Sub-Millisecond Regime. <i>Sensors</i> , 2021, 21, 5563.	2.1	7

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37	Mid-infrared DMD-based spectral-coding spectroscopy with a supercontinuum laser source. <i>Optics Express</i> , 2022, 30, 6440.	1.7	7
38	Investigation of the interaction between MeCP2 methyl-CpG binding domain and methylated DNA by single molecule force spectroscopy. <i>Analytica Chimica Acta</i> , 2020, 1124, 52-59.	2.6	5
39	Imaging and quantifying analysis the binding behavior of PD-L1 at molecular resolution by atomic force microscopy. <i>Analytica Chimica Acta</i> , 2022, 1191, 339281.	2.6	5
40	Atomic Force Microscopy Studies of Human Rhinovirus. <i>Methods in Enzymology</i> , 2010, 475, 515-539.	0.4	4
41	Stable Hall voltages in presence of dynamic quasi-continuum bands in poly(3,4-ethylene-dioxythiophene). <i>Organic Electronics</i> , 2019, 65, 412-418.	1.4	3
42	Terahertz Time-Domain Polarimetry in Reflection for Film Characterization. <i>Sensors</i> , 2020, 20, 3352.	2.1	3
43	Molecular Recognition Force Spectroscopy. , 2011, , 3-46.		1
44	New Atomic Force Microscope Facilitates Faster Workflow for Nanoscale In Situ Applications. <i>Microscopy Today</i> , 2016, 24, 26-31.	0.2	1
45	A Localized Analysis of the Sterilization Process by Direct Steam Monitoring. <i>IEEE Access</i> , 2017, 5, 19961-19970.	2.6	1
46	Nonlinear Dynamic Models of Piezoelectric Nano-Stages. , 2016, , .		0
47	Nanoimaging, Molecular Interaction, and Nanotemplating of Human Rhinovirus. <i>Nanoscience and Technology</i> , 2011, , 589-643.	1.5	0