Boris B Akhremitchev

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Single-Molecule Force Spectroscopy of the Aplysia Cell Adhesion Molecule Reveals Two Homophilic Bonds. Biophysical Journal, 2012, 103, 649-657.	0.5	39
2	On the Detection of Single Bond Ruptures in Dynamic Force Spectroscopy by AFM. Langmuir, 2011, 27, 11287-11291.	3.5	13
3	Apparent Dependence of Rupture Force on Loading Rate in Singleâ€Molecule Force Spectroscopy. ChemPhysChem, 2010, 11, 2096-2098.	2.1	5
4	Distributions of Parameters and Features of Multiple Bond Ruptures in Force Spectroscopy by Atomic Force Microscopy. Journal of Physical Chemistry C, 2010, 114, 8755-8765.	3.1	14
5	Calcium Dependence of Fibrin Nanomechanics: The γ1 Calcium Mediates the Unfolding of Fibrinogen Induced by Force Applied to the "Aâ^'a―Bond. Langmuir, 2010, 26, 14716-14722.	3.5	10
6	Molecular Stress Relief through a Force-Induced Irreversible Extension in Polymer Contour Length. Journal of the American Chemical Society, 2010, 132, 15936-15938.	13.7	126
7	Kinetic Parameters from Detection Probability in Single Molecule Force Spectroscopy. Langmuir, 2010, 26, 11951-11957.	3.5	6
8	Mechanical Distortion of Protein Receptor Decreases the Lifetime of a Receptorâ^'Ligand Bond. Journal of the American Chemical Society, 2010, 132, 9681-9687.	13.7	9
9	Association Kinetics from Single Molecule Force Spectroscopy Measurements. Biophysical Journal, 2009, 96, 3412-3422.	0.5	24
10	Kinetics of the Multistep Rupture of Fibrin â€~A-a' Polymerization Interactions Measured Using Atomic Force Microscopy. Biophysical Journal, 2009, 97, 2820-2828.	0.5	20
11	Assembly, Tuning and Use of an Apertureless Near Field Infrared Microscope for Protein Imaging. Journal of Visualized Experiments, 2009, , .	0.3	3
12	Surface Elastic Properties of Human Retinal Pigment Epithelium Melanosomes ^{â€} . Photochemistry and Photobiology, 2008, 84, 671-678.	2.5	26
13	Effects of Multiple-Bond Ruptures on Kinetic Parameters Extracted from Force Spectroscopy Measurements: Revisiting Biotin-Streptavidin Interactions. Biophysical Journal, 2008, 95, 3964-3976.	0.5	66
14	Complexity of "Aâ^'a―Knobâ^'Hole Fibrin Interaction Revealed by Atomic Force Spectroscopy. Langmuir, 2008, 24, 4979-4988.	3.5	42
15	Anisotropy of Pairwise Interactions between Hexadecanes in Water Measured by AFM Force Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 18164-18172.	3.1	5
16	Effects of Multiple-Bond Ruptures in Force Spectroscopy Measurements of Interactions between Fullerene C ₆₀ Molecules in Water. Journal of Physical Chemistry C, 2008, 112, 5085-5092.	3.1	20
17	Pairwise Interactions between Linear Alkanes in Water Measured by AFM Force Spectroscopy. Journal of the American Chemical Society, 2008, 130, 10008-10018.	13.7	27
18	Investigation of Mechanical Properties of Insulin Crystals by Atomic Force Microscopy. Langmuir, 2008, 24, 880-887.	3.5	35

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19	Correction of Systematic Errors in Single-Molecule Force Spectroscopy with Polymeric Tethers by Atomic Force Microscopy. Journal of Physical Chemistry B, 2007, 111, 1963-1974.	2.6	95
20	Single-Molecule Force Spectroscopy Measurements of Interactions between C60Fullerene Molecules. Journal of Physical Chemistry C, 2007, 111, 12898-12905.	3.1	21
21	Rupture Force Analysis and the Associated Systematic Errors in Force Spectroscopy by AFM. Langmuir, 2007, 23, 6076-6083.	3.5	36
22	Packing Density and Structural Heterogeneity of Insulin Amyloid Fibrils Measured by AFM Nanoindentation. Biomacromolecules, 2006, 7, 1630-1636.	5.4	143
23	Single-molecule Force Spectroscopy Measurements of "Hydrophobic Bond―between Tethered Hexadecane Molecules. Journal of Physical Chemistry B, 2006, 110, 17578-17583.	2.6	44
24	Apertureless Scanning Near-Field IR Microscopy for Chemical Imaging of Thin Films. ACS Symposium Series, 2005, , 51-64.	0.5	0
25	Single-Molecule AFM Study of Polystyrene Grafted at Gold Surfaces. Journal of Adhesion, 2005, 81, 999-1016.	3.0	14
26	Conformational Heterogeneity of Surface-Grafted Amyloidogenic Fragments of Alpha-Synuclein Dimers Detected by Atomic Force Microscopy. Journal of the American Chemical Society, 2005, 127, 14739-14744.	13.7	35
27	Using the Adhesive Interaction between Atomic Force Microscopy Tips and Polymer Surfaces to Measure the Elastic Modulus of Compliant Samples. Langmuir, 2004, 20, 5837-5845.	3.5	177
28	Adhesion Forces in Conducting Probe Atomic Force Microscopy. Langmuir, 2003, 19, 1929-1934.	3.5	30
29	Imaging of optical field confinement in ridge waveguides fabricated on very-small-aperture laser. Applied Physics Letters, 2003, 83, 3245-3247.	3.3	67
30	Enhancement of the weak scattered signal in apertureless near-field scanning infrared microscopy. Review of Scientific Instruments, 2003, 74, 3670-3674.	1.3	27
31	Application of Scanning Force and Near Field Microscopies to the Characterization of Minimally Adhesive Polymer Surfaces. Biofouling, 2003, 19, 99-104.	2.2	8
32	<title>Apertureless near field microscopy for chemical imaging of surfaces</title> ., 2003, 5223, 169.		0
33	Developing Vibrational Infrared Near Field Spectroscopy to Characterize Polymer Structures on Surfaces: Identification and Reduction of Topographic Coupling Artifacts. Bulletin of the Chemical Society of Japan, 2002, 75, 1011-1018.	3.2	1
34	Monolayer-Sensitive Infrared Imaging of DNA Stripes Using Apertureless Near-Field Microscopy. Langmuir, 2002, 18, 5325-5328.	3.5	42
35	Study of the Polydispersity of Grafted Poly(dimethylsiloxane) Surfaces Using Single-Molecule Atomic Force Microscopy. Journal of Physical Chemistry B, 2001, 105, 3965-3971.	2.6	68
36	Apertureless Scanning Near-Field Infrared Microscopy of a Rough Polymeric Surface. Langmuir, 2001, 17, 2774-2781.	3.5	48

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37	Force Modulation Elasticity Mapping of Plastic-embedded, Thin-sectioned Skeletal Muscle. Microscopy and Microanalysis, 2001, 7, 32-38.	0.4	5
38	Force Modulation Elasticity Mapping of Plastic-embedded, Thin-sectioned Skeletal Muscle. Microscopy and Microanalysis, 2001, 7, 32-38.	0.4	2
39	Ultrafast Infrared Spectroscopy of Vibrational States Prepared by Photoinduced Electron Transfer in (CN)5FeCNRu(NH3)5 Journal of Physical Chemistry A, 2000, 104, 4314-4320.	2.5	48
40	Ultrafast Infrared and Visible Spectroscopy of Intermolecular Electron Transfer From Dimethyl Aniline to Coumarin 337. Laser Chemistry, 1999, 19, 403-405.	0.5	3
41	Vibrational Mode Coupling to Reverse Electron Transfer in (CN)5FeCNRu(NH3)5â^' in Solution. Laser Chemistry, 1999, 19, 385-387.	0.5	1
42	Finite Sample Thickness Effects on Elasticity Determination Using Atomic Force Microscopy. Langmuir, 1999, 15, 5630-5634.	3.5	74
43	Structural Characterization and Electron Tunneling atn-Si/SiO2/SAM/Liquid Interface. Journal of Physical Chemistry B, 1999, 103, 5220-5226.	2.6	16
44	Single Polymer Chain Elongation by Atomic Force Microscopy. Langmuir, 1999, 15, 2799-2805.	3.5	123
45	Atomic Force Microscopy Studies of Hydration of Fluorinated Amide/Urethane Copolymer Film Surfaces. Langmuir, 1998, 14, 3976-3982.	3.5	33
46	Femtosecond Infrared and Visible Spectroscopy of Photoinduced Intermolecular Electron Transfer Dynamics and Solventâ^'Solute Reaction Geometries:  Coumarin 337 in Dimethylaniline. Journal of Physical Chemistry A, 1997, 101, 2735-2738.	2.5	30
47	A femtosecond absorption spectrometer tunable from 50 000 to 800 cmâ^'1: Nonlinear optics and pump/probe geometries. Review of Scientific Instruments, 1996, 67, 3799-3805.	1.3	21