MiklÃ³s S Z Kellermayer

List of Publications by Year
in descending order

106 papers	2,796 citations	186209 28 h-index	197736 49 g-index
110 all docs	110 docs citations	110 times ranked	3422 citing authors

#	Article	IF	Citations
1	Nanosurgical Manipulation of Titin and Its M-Complex. Nanomaterials, 2022, 12, 178.	1.9	4
2	Contribution of hydrophobic interactions to protein mechanical stability. Computational and Structural Biotechnology Journal, 2022, 20, 1946-1956.	1.9	13
3	MO044: Cellular mechanism of the exceptional dominant transmission in NPHS2-associated glomerulopathy. Nephrology Dialysis Transplantation, 2022, 37, .	0.4	0
4	Topography, Spike Dynamics, and Nanomechanics of Individual Native SARS-CoV-2 Virions. Nano Letters, 2021, 21, 2675-2680.	4.5	41
5	Large Stokes-shift bioorthogonal probes for STED, 2P-STED and multi-color STED nanoscopy. Methods and Applications in Fluorescence, 2021, 9, 015006.	1.1	6
6	A brief overview of global biotechnology. Biotechnology and Biotechnological Equipment, 2021, 35, S5-S14.	0.5	14
7	Citrullinated Fibrinogen Renders Clots Mechanically Less Stable, but Lysis-Resistant. Circulation Research, 2021, 129, 342-344.	2.0	8
8	The 3M Concept: Biomedical Translational Imaging from Molecules to Mouse to Man. The EuroBiotech Journal, 2021, 5, 155-160.	0.5	0
9	BRAF Modulates Stretch-Induced Intercellular Gap Formation through Localized Actin Reorganization. International Journal of Molecular Sciences, 2021, 22, 8989.	1.8	1
10	Development, structure and mechanics of a synthetic E. coli outer membrane model. Nanoscale Advances, 2021, 3, 755-766.	2.2	5
11	Increased Expression of N2BA Titin Corresponds to More Compliant Myofibrils in Athleteâ€™s Heart. International Journal of Molecular Sciences, 2021, 22, 11110.	1.8	2
12	Semmelweis Caring University Model Program Based on the Development of a Center of Preventive Services: Health for All Employees at a University Occupational Setting. Frontiers in Public Health, 2021, 9, 727668.	1.3	1
13	The discovery of actin: â€œto see what everyone else has seen, and to think what nobody has thoughtâ€. Journal of Muscle Research and Cell Motility, 2020, 41, 3-9.	0.9	11
14	Single-particle virology. Biophysical Reviews, 2020, 12, 1141-1154.	1.5	16
15	MO032PODOCIN REGULATES THE SIZE OF THE GLOMERULAR PORE. Nephrology Dialysis Transplantation, 2020, 35, .	0.4	0
16	Single-Molecule Mechanics in Ligand Concentration Gradient. Micromachines, 2020, 11, 212.	1.4	2
17	Imaging and Mechanics of Infectious DNA Ejection by the T7 Bacteriophage. Biophysical Journal, 2020, 118, 490a.	0.2	0
18	Green-Light Activatable, Water-Soluble Red-Shifted Coumarin Photocages. Organic Letters, 2019, 21, 9410-9414.	2.4	73

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19	Alterations in the properties of the cell membrane due to glycosphingolipid accumulation in a model of Gaucher disease. Scientific Reports, 2018, 8, 157.	1.6	45
20	Forced phage uncorking: viral DNA ejection triggered by a mechanically sensitive switch. Nanoscale, 2018, 10, 1898-1904.	2.8	25
21	Cardiac Computed Tomography Radiomics. Journal of Thoracic Imaging, 2018, 33, 26-34.	0.8	146
22	Optimization of Quality Attributes and Atomic Force Microscopy Imaging of Reconstituted Nanodroplets in Baicalin Loaded Self-Nanoemulsifying Formulations. Pharmaceutics, 2018, 10, 275.	2.0	23
23	A myosin II nanomachine mimicking the striated muscle. Nature Communications, 2018, 9, 3532.	5.8	37
24	Study on the dissolution improvement of albendazole using reconstitutable dry nanosuspension formulation. European Journal of Pharmaceutical Sciences, 2018, 123, 70-78.	1.9	12
25	Microstructural Distinction of Electrospun Nanofibrous Drug Delivery Systems Formulated with Different Excipients. Molecular Pharmaceutics, 2018, 15, 4214-4225.	2.3	24
26	Topology of interaction between titin and myosin thick filaments. Journal of Structural Biology, 2018, 203, 46-53.	1.3	5
27	Temperature-Dependent Nanomechanics and Topography of Bacteriophage T7. Journal of Virology, 2018, 92, .	1.5	13
28	Label-free Multiscale Transport Imaging of the Living Cell. Biophysical Journal, 2018, 115, 874-880.	0.2	8
29	Plasmin-driven fibrinolysis in a quasi-two-dimensional nanoscale fibrin matrix. Journal of Structural Biology, 2018, 203, 273-280.	1.3	7
30	Force generation by titin folding. Protein Science, 2017, 26, 1380-1390.	3.1	28
31	Preparation and 68Ga-radiolabeling of porous zirconia nanoparticle platform for PET/CT-imaging guided drug delivery. Journal of Pharmaceutical and Biomedical Analysis, 2017, 137, 146-150.	1.4	11
32	Optical Trapping Nanometry of Hypermethylated CPG-Island DNA. Biophysical Journal, 2017, 112, 512-522.	0.2	31
33	Dispersion and stabilization of cochleate nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 117, 270-275.	2.0	15
34	Nanotubes connecting B lymphocytes: High impact of differentiation-dependent lipid composition on their growth and mechanics. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 991-1000.	1.2	15
35	Stepwise reversible nanomechanical buckling in a viral capsid. Nanoscale, 2017, 9, 1136-1143.	2.8	11
36	Force spectroscopy reveals the presence of structurally modified dimers in transthyretin amyloid annular oligomers. Journal of Molecular Recognition, 2017, 30, e2587.	1.1	7

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37	Aggregation of PEGylated liposomes driven by hydrophobic forces. Colloids and Surfaces B: Biointerfaces, 2016, 147, 467-474.	2.5	14
38	An AT-barrier mechanically controls DNA reannealing under tension. Nucleic Acids Research, 2016, 44, 7954-7962.	6.5	1
39	Transport Imaging of Living Cells. Biophysical Journal, 2016, 110, 597a.	0.2	0
40	The growth determinants and transport properties of tunneling nanotube networks between B lymphocytes. Cellular and Molecular Life Sciences, 2016, 73, 4531-4545.	2.4	39
41	Formation and Mechanical Properties of Calcium-Stabilized Membrane Rolls. Biophysical Journal, 2016, 110, 249a.	0.2	0
42	Muscle intermediate filaments form a stress-transmitting and stress- signaling network in muscle. Journal of Cell Science, 2015, 128, 219-24.	1.2	51
43	Extreme Resilience in Cochleate Nanoparticles. Langmuir, 2015, 31, 839-845.	1.6	11
44	Structural and nanomechanical comparison of epitaxially and solution-grown amyloid Î²25â€“35 fibrils. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 327-332.	1.1	7
45	Titin Domains Progressively Unfolded by Force Are Homogenously Distributed along the Molecule. Biophysical Journal, 2015, 109, 340-345.	0.2	20
46	Molecular Tattoo: Subcellular Confinement of Drug Effects. Chemistry and Biology, 2015, 22, 548-558.	6.2	11
47	Effect of Methylation on the Nanomechanics of Double-Stranded DNA. Biophysical Journal, 2015, 108, 352a.	0.2	0
48	Low-force transitions in single titin molecules reflect a memory of contractile history. Journal of Cell Science, 2014, 127, 858-70.	1.2	33
49	Exclusion-Zone Dynamics Explored with Microfluidics and Optical Tweezers. Entropy, 2014, 16, 4322-4337.	1.1	17
50	Microfluidic channels laser-cut in thin double-sided tapes: Cost-effective biocompatible fluidics in minutes from design to final integration with optical biochips. Sensors and Actuators B: Chemical, 2014, 196, 352-356.	4.0	57
51	Stretching desmin filaments with receding meniscus reveals large axial tensile strength. Journal of Structural Biology, 2014, 186, 472-480.	1.3	4
52	Nano-thrombelastography of fibrin during blood plasma clotting. Journal of Structural Biology, 2014, 186, 462-471.	1.3	11
53	Photosynthetic reaction centre/carbon nanotube bundle composites. Physica Status Solidi (B): Basic Research, 2014, 251, 2366-2371.	0.7	4
54	Individual Globular Domains and Domain Unfolding Visualized in Overstretched Titin Molecules with Atomic Force Microscopy. PLoS ONE, 2014, 9, e85847.	1.1	8

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55	Visualization of human Bloom's syndrome helicase molecules bound to homologous recombination intermediates. FASEB Journal, 2013, 27, 4954-4964.	0.2	15
56	Epitaxial assembly dynamics of mutant amyloid Î²25â€“35_N27C fibrils explored with time-resolved scanning force microscopy. Biophysical Chemistry, 2013, 184, 54-61.	1.5	4
57	Lateral gradients significantly enhance static magnetic fieldâ€induced inhibition of pain responses in miceâ€”a double blind experimental study. Bioelectromagnetics, 2013, 34, 385-396.	0.9	15
58	Different pressureâ€“temperature behavior of the structured and unstructured regions of titin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 112-118.	1.1	23
59	Cross-Species Mechanical Fingerprinting of Cardiac Myosin Binding Protein-C. Biophysical Journal, 2013, 104, 2465-2475.	0.2	8
60	Conformational Dynamics of Titin PEVK Explored with FRET Spectroscopy. Biophysical Journal, 2012, 103, 1480-1489.	0.2	12
61	Nanomechanics of Desmin Filaments Explored with Optical Tweezers. Biophysical Journal, 2012, 102, 578a.	0.2	1
62	Distinct Annular Oligomers Captured along the Assembly and Disassembly Pathways of Transthyretin Amyloid Protofibrils. PLoS ONE, 2012, 7, e44992.	1.1	42
63	A novel actin binding site of myosin required for effective muscle contraction. Nature Structural and Molecular Biology, 2012, 19, 299-306.	3.6	64
64	Single-Molecule Studies of Amyloidogenic Proteins. , 2012, , 169-210.		1
65	Millisecond Time-Scale Protein Dynamics Exists Prior to the Activation of the Bulk Solvent Matrix. Journal of Physical Chemistry B, 2011, 115, 5707-5715.	1.2	5
66	A Novel Actin Binding Site of Myosin is Responsible for Effective Muscle Contraction. Biophysical Journal, 2011, 100, 130a-131a.	0.2	1
67	Mechanical Unfolding of Cardiac Myosin Binding Protein-C by Atomic Force Microscopy. Biophysical Journal, 2011, 101, 1968-1977.	0.2	40
68	The Motif of Myosin Binding Protein-C is Mechanically Weak and Extensible. Biophysical Journal, 2011, 100, 453a-454a.	0.2	1
69	Combined Atomic Force Microscopy and Fluorescence Microscopy. Methods in Molecular Biology, 2011, 736, 439-456.	0.4	6
70	Structure and assemblyâ€“disassembly properties of wildâ€type transthyretin amyloid protofibrils observed with atomic force microscopy. Journal of Molecular Recognition, 2011, 24, 467-476.	1.1	22
71	Effect of the betaâ€sheetâ€breaker peptide LPFFD on oriented network of amyloid Î²25â€35 fibrils. Journal of Molecular Recognition, 2011, 24, 453-460.	1.1	10
72	Structure and elasticity of desmin protofibrils explored with scanning force microscopy. Journal of Molecular Recognition, 2011, 24, 1095-1104.	1.1	11

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73	Effects of Estrogen on Beta-Amyloid-Induced Cholinergic Cell Death in the Nucleus Basalis Magnocellularis. Neuroendocrinology, 2011, 93, 90-105.	1.2	20
74	Recovery of functional enzyme from amyloid fibrils. FEBS Letters, 2010, 584, 1139-1142.	1.3	4
75	Dynamic Strength of Titin's Z-Disk End. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-8.	3.0	6
76	Theoretical Predictions of the Effects of Force Transmission by Desmin on Intersarcomere Dynamics. Biophysical Journal, 2010, 98, 258-266.	0.2	24
77	Crystal-storing histiocytosis associated with only one of two consecutive, but genetically unrelated B-cell lymphomas. Pathology Research and Practice, 2009, 205, 273-278.	1.0	3
78	Oriented epitaxial growth of amyloid fibrils of the N27C mutant Î²25â€“35 peptide. European Biophysics Journal, 2008, 37, 1133-1137.	1.2	19
79	Muscle Thixotropy: More than Just Cross-Bridges? Response to Comment by Campbell and Lakie. Biophysical Journal, 2008, 94, 329-330.	0.2	5
80	Periodically Arranged Interactions within the Myosin Filament Backbone Revealed by Mechanical Unzipping. Journal of Molecular Biology, 2008, 377, 307-310.	2.0	12
81	Kinetic Characterization of the Function of Myosin Loop 4 in the Actinâ˜Myosin Interaction. Biochemistry, 2008, 47, 283-291.	1.2	9
82	Stepwise dynamics of epitaxially growing single amyloid fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 141-144.	3.3	102
83	Interaction Forces between F-Actin and Titin PEVK Domain Measured with Optical Tweezers. Biophysical Journal, 2007, 93, 2102-2109.	0.2	93
84	Potassium-dependent oriented growth of amyloid Î²25â€“35 fibrils on mica. Nanotechnology, 2007, 18, 345102.	1.3	34
85	Spatially and Temporally Synchronized Atomic Force and Total Internal Reflection Fluorescence Microscopy for Imaging and Manipulating Cells and Biomolecules. Biophysical Journal, 2006, 91, 2665-2677.	0.2	55
86	Visualizing and manipulating individual protein molecules. Physiological Measurement, 2005, 26, R119-R153.	1.2	40
87	Reversible Mechanical Unzipping of Amyloid Î²-Fibrils. Journal of Biological Chemistry, 2005, 280, 8464-8470.	1.6	80
88	Differential actin binding along the PEVK domain of skeletal muscle titin. Journal of Cell Science, 2004, 117, 5781-5789.	1.2	71
89	Mechanics and structure of titin oligomers explored with atomic force microscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1604, 105-114.	0.5	65
90	Stretching and visualizing titin molecules: combining structure, dynamics and mechanics. , 2003, , 499-511.		0

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91	Different Molecular Mechanics Displayed by Titin's Constitutively and Differentially Expressed Tandem Ig Segments. Journal of Structural Biology, 2002, 137, 248-258.	1.3	83
92	Molecular Mechanics of Cardiac Titin's PEVK and N2B Spring Elements. Journal of Biological Chemistry, 2002, 277, 11549-11558.	1.6	141
93	Stretching and visualizing titin molecules: combining structure, dynamics and mechanics. Journal of Muscle Research and Cell Motility, 2002, 23, 499-511.	0.9	24
94	Mechanical Fatigue in Repetitively Stretched Single Molecules of Titin. Biophysical Journal, 2001, 80, 852-863.	0.2	87
95	Direct Visualization of Surface-Adsorbed Single Fluorescently Labeled Titin Molecules. Single Molecules, 2001, 2, 79-83.	1.6	6
96	Mechanical Properties of Titin Isoforms. Advances in Experimental Medicine and Biology, 2000, 481, 283-304.	0.8	41
97	Mechanical Manipulation of Single Titin Molecules with Laser Tweezers. Advances in Experimental Medicine and Biology, 2000, 481, 111-128.	0.8	22
98	Complete Unfolding of the Titin Molecule under External Force. Journal of Structural Biology, 1998, 122, 197-205.	1.3	72
99	Titin Extensibility In Situ: Entropic Elasticity of Permanently Folded and Permanently Unfolded Molecular Segments. Journal of Cell Biology, 1998, 140, 853-859.	2.3	238
100	Delayed dissociation of in vitro moving actin filaments from heavy meromyosin induced by low concentrations of Triton X-100. Biophysical Chemistry, 1997, 67, 199-210.	1.5	10
101	Calcium-dependent inhibition of in vitro thin-filament motility by native titin. FEBS Letters, 1996, 380, 281-286.	1.3	117
102	Elastic Properties of Single Titin Molecules Made Visible through Fluorescent F-Actin Binding. Biochemical and Biophysical Research Communications, 1996, 221, 491-497.	1.0	43
103	Rescue of in vitro actin motility halted at high ionic strength by reduction of ATP to submicromolar levels. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1277, 107-114.	0.5	13
104	Nuclear magnetic resonance relaxation parameters of muscle in malignant hyperthermia-susceptible swine. Academic Radiology, 1996, 3, 26-30.	1.3	3
105	MAINTENANCE OF IONS, PROTEINS AND WATER IN LENS FIBER CELLS BEFORE AND AFTER TREATMENT WITH NON-IONIC DETERGENTS. Cell Biology International, 1996, 20, 127-137.	1.4	15
106	Persisting in vitro motility of actin filaments at nanomolar ATP concentrations after ATP pretreatment. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 89-95.	0.5	3