Katalin TÃ³th

List of Publications by Year
in descending order

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95	2,550	185998	223531
papers	citations	28	46
		h-index	g-index

99	99	99	3279
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of C-Terminal Domain and Membrane Potential in the Mobility of Kv1.3 Channels in Immune Synapse Forming T Cells. International Journal of Molecular Sciences, 2022, 23, 3313.	1.8	1
2	Diversity of ion channels. Journal of Physiology, 2021, 599, 2603-2604.	1.3	1
3	DNA sequence-dependent positioning of the linker histone in a nucleosome: A single-pair FRET study. Biophysical Journal, 2021, 120, 3747-3763.	0.2	4
4	IL-15 Trans-Presentation Is an Autonomous, Antigen-Independent Process. Journal of Immunology, 2021, 207, 2489-2500.	0.4	6
5	Simultaneous Mapping of Molecular Proximity and Comobility Reveals Agonist-Enhanced Dimerization and DNA Binding of Nuclear Receptors. Analytical Chemistry, 2020, 92, 2207-2215.	3.2	8
6	Agonist binding directs dynamic competition among nuclear receptors for heterodimerization with retinoid X receptor. Journal of Biological Chemistry, 2020, 295, 10045-10061.	1.6	24
7	Slowâ€decaying presynaptic calcium dynamics gate longâ€lasting asynchronous release at the hippocampal mossy fiber to CA3 pyramidal cell synapse. Synapse, 2020, 74, e22178.	0.6	6
8	Dynamics of the nucleosomal histone H3 N-terminal tail revealed by high precision single-molecule FRET. Nucleic Acids Research, 2020, 48, 1551-1571.	6.5	34
9	Fxr1 regulates sleep and synaptic homeostasis. EMBO Journal, 2020, 39, e103864.	3.5	21
10	IL-2 receptors preassemble and signal in the ER/Golgi causing resistance to antiproliferative antiâ€“IL-2RÎ± therapies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21120-21130.	3.3	22
11	Comparison of light-induced formation of reactive oxygen species and the membrane destruction of two mesoporphyrin derivatives in liposomes. Scientific Reports, 2019, 9, 11312.	1.6	7
12	DNA accessibility of chromatosomes quantified by automated image analysis of AFM data. Scientific Reports, 2019, 9, 12788.	1.6	16
13	DNA specificities modulate the binding of human transcription factor A to mitochondrial DNA control region. Nucleic Acids Research, 2019, 47, 6519-6537.	6.5	17
14	Multiple Interaction Modes of the Nucleosomal Histone H3 N-Terminal Tail Revealed by High Precision Single-Molecule FRET. Biophysical Journal, 2019, 116, 468a-469a.	0.2	1
15	Protein Flexibility and Synergy of HMG Domains Underlie U-Turn Bending of DNA by TFAM in Solution. Biophysical Journal, 2018, 114, 2386-2396.	0.2	16
16	JÃ¶rg Langowski: his scientific legacy and the future it promises. BMC Biophysics, 2018, 11, 5.	4.4	0
17	High precision FRET studies reveal reversible transitions in nucleosomes between microseconds and minutes. Nature Communications, 2018, 9, 4628.	5.8	58
18	The Other Histone: Probing the Role of Linker Histone in a Chromatosome. Biophysical Journal, 2018, 114, 684a.	0.2	0

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19	Random Motion of Chromatin Is Influenced byÂLamin A Interconnections. Biophysical Journal, 2018, 114, 2465-2472.	0.2	8
20	Mental Illnesses-Associated Fxr1 and Its Negative Regulator Gsk3Î² Are Modulators of Anxiety and Glutamatergic Neurotransmission. Frontiers in Molecular Neuroscience, 2018, 11, 119.	1.4	24
21	Assembly Kinetics of Vimentin Tetramers to Unit-Length Filaments: A Stopped-Flow Study. Biophysical Journal, 2018, 114, 2408-2418.	0.2	29
22	Membrane Potential Distinctly Modulates Mobility and Signaling of IL-2 and IL-15 Receptors in T Cells. Biophysical Journal, 2018, 114, 2473-2482.	0.2	8
23	Biophysical characterization of histone H3.3 K27M point mutation. Biochemical and Biophysical Research Communications, 2017, 490, 868-875.	1.0	12
24	Nucleosome Opening Kinetics and the Influence of Histone Modifications Studied by Single Molecule FRET. Biophysical Journal, 2017, 112, 217a.	0.2	0
25	How to Open a Nucleosome. Biophysical Journal, 2017, 112, 375a.	0.2	0
26	Single Molecule Fluorescence Studies on Nucleosome Dynamics. Biophysical Journal, 2017, 112, 474a.	0.2	0
27	Defining the epichromatin epitope. Nucleus, 2017, 8, 625-640.	0.6	15
28	Effects of charge-modifying mutations in histone H2A Î±3-domain on nucleosome stability assessed by single-pair FRET and MD simulations. Scientific Reports, 2017, 7, 13303.	1.6	18
29	Single Molecule Fluorescence Studies on Nucleosome Dynamics. Biophysical Journal, 2016, 110, 638a.	0.2	0
30	MHC I Expression Regulates Co-clustering and Mobility of Interleukin-2 and -15 Receptors in T Cells. Biophysical Journal, 2016, 111, 100-112.	0.2	15
31	EGFP oligomers as natural fluorescence and hydrodynamic standards. Scientific Reports, 2016, 6, 33022.	1.6	46
32	Retinoids induce Nur77-dependent apoptosis in mouse thymocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 660-670.	1.9	11
33	Opposing roles of H3- and H4-acetylation in the regulation of nucleosome structureâ€"a FRET study. Nucleic Acids Research, 2015, 43, 1433-1443.	6.5	62
34	Nucleosome Core Particle Disassembly and Assembly Kinetics Studied Using Single-Molecule Fluorescence. Biophysical Journal, 2015, 109, 1676-1685.	0.2	37
35	Evidence for Homodimerization of the c-Fos Transcription Factor in Live Cells Revealed by Fluorescence Microscopy and Computer Modeling. Molecular and Cellular Biology, 2015, 35, 3785-3798.	1.1	35
36	Information processing and synaptic plasticity at hippocampal mossy fiber terminals. Frontiers in Cellular Neuroscience, 2014, 8, 28.	1.8	56

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37	Ligand Binding Shifts Highly Mobile Retinoid X Receptor to the Chromatin-Bound State in a Coactivator-Dependent Manner, as Revealed by Single-Cell Imaging. Molecular and Cellular Biology, 2014, 34, 1234-1245.	1.1	33
38	FRET Imaging by Laser Scanning Cytometry on Large Populations of Adherent Cells. Current Protocols in Cytometry, 2014, 70, 2.23.1-29.	3.7	1
39	Antiglioma activity of GoPI-sugar, a novel gold(I)â€“phosphole inhibitor: Chemical synthesis, mechanistic studies, and effectiveness in vivo. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1415-1426.	1.1	27
40	Selective Acetylation Reveals Distinct Roles of Histones H3 and H4 in Nucleosome Dynamics - a FRET Study. Biophysical Journal, 2014, 106, 430a.	0.2	0
41	How Histone Modifications Change Nucleosome Stability â€“ FRET Studies on Single Molecules and in Bulk. Microscopy and Microanalysis, 2014, 20, 1204-1205.	0.2	0
42	Binding of new cationic porphyrinâ€“tetrapeptide conjugates to nucleoprotein complexes. Biophysical Chemistry, 2013, 177-178, 14-23.	1.5	7
43	High throughput FRET analysis of proteinâ€“protein interactions by slideâ€based imaging laser scanning cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 818-829.	1.1	26
44	Histoneâ€•and DNA sequenceâ€dependent stability of nucleosomes studied by singleâ€pair FRET. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 839-846.	1.1	40
45	Nucleosome Dynamics Studied by Single-Pair FRET and Computer Simulations. Biophysical Journal, 2013, 104, 38a.	0.2	0
46	Closing the Gap between Single Molecule and Bulk FRET Analysis of Nucleosomes. PLoS ONE, 2013, 8, e57018.	1.1	25
47	Nucleosome Dynamics Studied by Single Pair FRET and Computer Simulations. Biophysical Journal, 2012, 102, 480a.	0.2	0
48	ROS-mediated killing efficiency with visible light of bacteria carrying different red fluorochrome proteins. Journal of Photochemistry and Photobiology B: Biology, 2012, 109, 28-33.	1.7	27
49	Cell Cycle-Dependent Mobility of Cdc45 Determined in vivo by Fluorescence Correlation Spectroscopy. PLoS ONE, 2012, 7, e35537.	1.1	14
50	Protein Disorder Prevails under Crowded Conditions. Biochemistry, 2011, 50, 5834-5844.	1.2	77
51	Positioning Effects of KillerRed inside of Cells correlate with DNA Strand Breaks after Activation with Visible Light. International Journal of Medical Sciences, 2011, 8, 97-105.	1.1	19
52	Syntheses and DNA binding of new cationic porphyrinâ€“tetrapeptide conjugates. Biophysical Chemistry, 2011, 155, 36-44.	1.5	33
53	Nucleosome accessibility governed by the dimer/tetramer interface. Nucleic Acids Research, 2011, 39, 3093-3102.	6.5	175
54	Live-cell fluorescence correlation spectroscopy dissects the role of coregulator exchange and chromatin binding in retinoic acid receptor mobility. Journal of Cell Science, 2011, 124, 3631-3642.	1.2	41

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55	Antimalarial versus Cytotoxic Properties of Dual Drugs Derived From 4-Aminoquinolines and Mannich Bases: Interaction with DNA. Journal of Medicinal Chemistry, 2010, 53, 3214-3226.	2.9	69
56	Nucleosome Dynamics Studied by Free Solution Single Molecule FRET. Biophysical Journal, 2010, 98, 477a.	0.2	0
57	Transporter Molecules influence the Gene Expression in HeLa Cells. International Journal of Medical Sciences, 2009, 6, 18-27.	1.1	12
58	Autofluorescent Proteins as Photosensitizer in Eukaryontes. International Journal of Medical Sciences, 2009, 6, 365-373.	1.1	16
59	Nucleosome disassembly intermediates characterized by single-molecule FRET. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15308-15313.	3.3	171
60	Role of structure-proteins in the porphyrinâ€“DNA interaction. Journal of Photochemistry and Photobiology B: Biology, 2009, 96, 207-215.	1.7	15
61	Structural Variability of Nucleosomes Detected by Single-Pair FÃ¶rster Resonance Energy Transfer: Histone Acetylation, Sequence Variation, and Salt Effects. Journal of Physical Chemistry B, 2009, 113, 2604-2613.	1.2	60
62	Comparison of the efficiency and the specificity of DNA-bound and free cationic porphyrin in photodynamic virus inactivation. Journal of Photochemistry and Photobiology B: Biology, 2008, 90, 105-112.	1.7	29
63	Conformation of the c-Fos/c-Jun Complex In Vivo: A Combined FRET, FCCS, and MD-Modeling Study. Biophysical Journal, 2008, 94, 2859-2868.	0.2	48
64	Single-pair fluorescence resonance energy transfer of nucleosomes in free diffusion: Optimizing stability and resolution of subpopulations. Analytical Biochemistry, 2007, 368, 193-204.	1.1	38
65	Chromatin Compaction at the Mononucleosome Level. Biochemistry, 2006, 45, 1591-1598.	1.2	62
66	Trinucleosome Compaction Studied by Fluorescence Energy Transfer and Scanning Force Microscopy. Biochemistry, 2006, 45, 10838-10846.	1.2	21
67	DNA damaging capability of hematoporphyrin towards DNAs of various accessibilities. Journal of Photochemistry and Photobiology B: Biology, 2006, 84, 119-127.	1.7	5
68	Undressing of Phosphine Gold(I) Complexes as Irreversible Inhibitors of Human Disulfide Reductases. Angewandte Chemie - International Edition, 2006, 45, 1881-1886.	7.2	180
69	Two-photon excitation and emission spectra of the green fluorescent protein variants ECFP, EGFP and EYFP. Journal of Microscopy, 2005, 217, 200-204.	0.8	58
70	Non-Random Patterns of Membrane Proteins and Their Roles in Transmembrane Signaling. , 2005, , 71-95.		2
71	Mechanism of Hairpin-Duplex Conversion for the HIV-1 Dimerization Initiation Site. Journal of Biological Chemistry, 2005, 280, 40112-40121.	1.6	44
72	Binding of Cationic Porphyrin to Isolated DNA and Nucleoprotein Complex:â€‰ Quantitative Analysis of Binding Forms under Various Experimental Conditions. Biochemistry, 2005, 44, 15000-15006.	1.2	17

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73	DNA-loop Formation on Nucleosomes Shown by in situ Scanning Force Microscopy of Supercoiled DNA. Journal of Molecular Biology, 2005, 345, 695-706.	2.0	31
74	IL-2 and IL-15 receptor Â-subunits are coexpressed in a supramolecular receptor cluster in lipid rafts of T cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11082-11087.	3.3	114
75	Maximum-entropy decomposition of fluorescence correlation spectroscopy data: application to liposome?human serum albumin association. European Biophysics Journal, 2004, 33, 59-67.	1.2	33
76	Binding of Cationic Porphyrin to Isolated and Encapsidated Viral DNA Analyzed by Comprehensive Spectroscopic Methodsâ€. Biochemistry, 2004, 43, 9151-9159.	1.2	41
77	Photosensitized inactivation of T7 phage as surrogate of non-enveloped DNA viruses: efficiency and mechanism of action. Biochimica Et Biophysica Acta - General Subjects, 2003, 1624, 115-124.	1.1	29
78	The Genome as a Flexible Polymer Chain. , 2002, , 121-132.		0
79	Trajectory of Nucleosomal Linker DNA Studied by Fluorescence Resonance Energy Transfer. Biochemistry, 2001, 40, 6921-6928.	1.2	44
80	Rotational dynamics of curved DNA fragments studied by fluorescence polarization anisotropy. European Biophysics Journal, 2001, 29, 597-606.	1.2	16
81	Photoinduced Inactivation of T7 Phage Sensitized by Symmetrically and Asymmetrically Substituted Tetraphenyl Porphyrin: Comparison of Efficiency and Mechanism of ActionÂ¶. Photochemistry and Photobiology, 2001, 73, 304-311.	1.3	0
82	The diameter of the DNA superhelix decreases with salt concentration: SANS measurements and Monte Carlo simulations. Journal of Applied Crystallography, 2000, 33, 526-529.	1.9	6
83	Salt-Dependent Compaction of Di- and Trinucleosomes Studied by Small-Angle Neutron Scattering. Biophysical Journal, 2000, 79, 584-594.	0.2	23
84	Superhelical DNA studied by solution scattering and computer models. Genetica, 1999, 106, 49-55.	0.5	14
85	DNA Curvature in Solution Measured by Fluorescence Resonance Energy Transfer. Biochemistry, 1998, 37, 8173-8179.	1.2	51
86	Salt-Dependent DNA Superhelix Diameter Studied by Small Angle Neutron Scattering Measurements and Monte Carlo Simulations. Biophysical Journal, 1998, 75, 3057-3063.	0.2	67
87	New trends in photobiology. Journal of Photochemistry and Photobiology B: Biology, 1992, 12, 9-27.	1.7	19
88	Quantitative Characterization of Photosensitizer-Nucleoprotein Interactions: a Comparison of 4,6,4â€™-Trimethylangelicin and 4â€™-Aminomethyl-4,5â€™8-Trimethylpsoralen. , 1991, , 211-218.		2
89	Dark and photoreactivity of 4â€²-aminomethyl-4,5â€²,8-trimethylpsoralen with T7 phage. Journal of Photochemistry and Photobiology B: Biology, 1990, 5, 167-178.	1.7	5
90	A small-angle scattering study of bacteriophage T7 using synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 282, 486-489.	0.7	2

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91	Loosening of the phage structure in a low ionic strength environment. European Biophysics Journal, 1988, 15, 293-298.	1.2	7
92	Characterization of new furocoumarin derivatives by their dark and light-mediated action on RNA bacteriophage MS2. Journal of Photochemistry and Photobiology B: Biology, 1988, 2, 209-220.	1.7	8
93	Symmetry and structure of bacteriophage T7. Computers and Mathematics With Applications, 1988, 16, 617-628.	1.4	7
94	UV-Induced small structural changes in the T7 bacteriophage studied by melting methods. Biophysics of Structure and Mechanism, 1983, 10, 229-239.	1.9	14
95	Raman study of isolated and â€œin situâ€•T7 phage DNA: conformation and possible interaction with the proteins. Acta Physica Academiae Scientiarum Hungaricae, 1982, 53, 25-32.	0.1	6