

Katalin TÃ³th

List of Publications by Year in descending order

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95
papers

2,550
citations

185998

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223531

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99
docs citations

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times ranked

3279
citing authors

#	ARTICLE	IF	CITATIONS
1	Undressing of Phosphine Gold(I) Complexes as Irreversible Inhibitors of Human Disulfide Reductases. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1881-1886.	7.2	180
2	Nucleosome accessibility governed by the dimer/tetramer interface. <i>Nucleic Acids Research</i> , 2011, 39, 3093-3102.	6.5	175
3	Nucleosome disassembly intermediates characterized by single-molecule FRET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15308-15313.	3.3	171
4	IL-2 and IL-15 receptor α -subunits are coexpressed in a supramolecular receptor cluster in lipid rafts of T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11082-11087.	3.3	114
5	Protein Disorder Prevails under Crowded Conditions. <i>Biochemistry</i> , 2011, 50, 5834-5844.	1.2	77
6	Antimalarial versus Cytotoxic Properties of Dual Drugs Derived From 4-Aminoquinolines and Mannich Bases: Interaction with DNA. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 3214-3226.	2.9	69
7	Salt-Dependent DNA Superhelix Diameter Studied by Small Angle Neutron Scattering Measurements and Monte Carlo Simulations. <i>Biophysical Journal</i> , 1998, 75, 3057-3063.	0.2	67
8	Chromatin Compaction at the Mononucleosome Level. <i>Biochemistry</i> , 2006, 45, 1591-1598.	1.2	62
9	Opposing roles of H3- and H4-acetylation in the regulation of nucleosome structure—a FRET study. <i>Nucleic Acids Research</i> , 2015, 43, 1433-1443.	6.5	62
10	Structural Variability of Nucleosomes Detected by Single-Pair Förster Resonance Energy Transfer: Histone Acetylation, Sequence Variation, and Salt Effects. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2604-2613.	1.2	60
11	Two-photon excitation and emission spectra of the green fluorescent protein variants ECFP, EGFP and EYFP. <i>Journal of Microscopy</i> , 2005, 217, 200-204.	0.8	58
12	High precision FRET studies reveal reversible transitions in nucleosomes between microseconds and minutes. <i>Nature Communications</i> , 2018, 9, 4628.	5.8	58
13	Information processing and synaptic plasticity at hippocampal mossy fiber terminals. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 28.	1.8	56
14	DNA Curvature in Solution Measured by Fluorescence Resonance Energy Transfer. <i>Biochemistry</i> , 1998, 37, 8173-8179.	1.2	51
15	Conformation of the c-Fos/c-Jun Complex In Vivo: A Combined FRET, FCCS, and MD-Modeling Study. <i>Biophysical Journal</i> , 2008, 94, 2859-2868.	0.2	48
16	EGFP oligomers as natural fluorescence and hydrodynamic standards. <i>Scientific Reports</i> , 2016, 6, 33022.	1.6	46
17	Trajectory of Nucleosomal Linker DNA Studied by Fluorescence Resonance Energy Transfer. <i>Biochemistry</i> , 2001, 40, 6921-6928.	1.2	44
18	Mechanism of Hairpin-Duplex Conversion for the HIV-1 Dimerization Initiation Site. <i>Journal of Biological Chemistry</i> , 2005, 280, 40112-40121.	1.6	44

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19	Binding of Cationic Porphyrin to Isolated and Encapsidated Viral DNA Analyzed by Comprehensive Spectroscopic Methods. <i>Biochemistry</i> , 2004, 43, 9151-9159.	1.2	41
20	Live-cell fluorescence correlation spectroscopy dissects the role of coregulator exchange and chromatin binding in retinoic acid receptor mobility. <i>Journal of Cell Science</i> , 2011, 124, 3631-3642.	1.2	41
21	Histone and DNA sequence-dependent stability of nucleosomes studied by single-pair FRET. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83, 839-846.	1.1	40
22	Single-pair fluorescence resonance energy transfer of nucleosomes in free diffusion: Optimizing stability and resolution of subpopulations. <i>Analytical Biochemistry</i> , 2007, 368, 193-204.	1.1	38
23	Nucleosome Core Particle Disassembly and Assembly Kinetics Studied Using Single-Molecule Fluorescence. <i>Biophysical Journal</i> , 2015, 109, 1676-1685.	0.2	37
24	Evidence for Homodimerization of the c-Fos Transcription Factor in Live Cells Revealed by Fluorescence Microscopy and Computer Modeling. <i>Molecular and Cellular Biology</i> , 2015, 35, 3785-3798.	1.1	35
25	Dynamics of the nucleosomal histone H3 N-terminal tail revealed by high precision single-molecule FRET. <i>Nucleic Acids Research</i> , 2020, 48, 1551-1571.	6.5	34
26	Maximum-entropy decomposition of fluorescence correlation spectroscopy data: application to liposome-human serum albumin association. <i>European Biophysics Journal</i> , 2004, 33, 59-67.	1.2	33
27	Syntheses and DNA binding of new cationic porphyrin-tetrapeptide conjugates. <i>Biophysical Chemistry</i> , 2011, 155, 36-44.	1.5	33
28	Ligand Binding Shifts Highly Mobile Retinoid X Receptor to the Chromatin-Bound State in a Coactivator-Dependent Manner, as Revealed by Single-Cell Imaging. <i>Molecular and Cellular Biology</i> , 2014, 34, 1234-1245.	1.1	33
29	DNA-loop Formation on Nucleosomes Shown by in situ Scanning Force Microscopy of Supercoiled DNA. <i>Journal of Molecular Biology</i> , 2005, 345, 695-706.	2.0	31
30	Photosensitized inactivation of T7 phage as surrogate of non-enveloped DNA viruses: efficiency and mechanism of action. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1624, 115-124.	1.1	29
31	Comparison of the efficiency and the specificity of DNA-bound and free cationic porphyrin in photodynamic virus inactivation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008, 90, 105-112.	1.7	29
32	Assembly Kinetics of Vimentin Tetramers to Unit-Length Filaments: A Stopped-Flow Study. <i>Biophysical Journal</i> , 2018, 114, 2408-2418.	0.2	29
33	ROS-mediated killing efficiency with visible light of bacteria carrying different red fluorochrome proteins. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 109, 28-33.	1.7	27
34	Antiglioma activity of GoPI-sugar, a novel gold(I)-phosphole inhibitor: Chemical synthesis, mechanistic studies, and effectiveness in vivo. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1415-1426.	1.1	27
35	High throughput FRET analysis of protein-protein interactions by slide-based imaging laser scanning cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83, 818-829.	1.1	26
36	Closing the Gap between Single Molecule and Bulk FRET Analysis of Nucleosomes. <i>PLoS ONE</i> , 2013, 8, e57018.	1.1	25

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37	Mental Illnesses-Associated Fxr1 and Its Negative Regulator Gsk3 ^β Are Modulators of Anxiety and Glutamatergic Neurotransmission. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 119.	1.4	24
38	Agonist binding directs dynamic competition among nuclear receptors for heterodimerization with retinoid X receptor. <i>Journal of Biological Chemistry</i> , 2020, 295, 10045-10061.	1.6	24
39	Salt-Dependent Compaction of Di- and Trinucleosomes Studied by Small-Angle Neutron Scattering. <i>Biophysical Journal</i> , 2000, 79, 584-594.	0.2	23
40	IL-2 receptors preassemble and signal in the ER/Golgi causing resistance to antiproliferative anti-IL-2R ^α therapies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21120-21130.	3.3	22
41	Trinucleosome Compaction Studied by Fluorescence Energy Transfer and Scanning Force Microscopy. <i>Biochemistry</i> , 2006, 45, 10838-10846.	1.2	21
42	Fxr1 regulates sleep and synaptic homeostasis. <i>EMBO Journal</i> , 2020, 39, e103864.	3.5	21
43	New trends in photobiology. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 12, 9-27.	1.7	19
44	Positioning Effects of KillerRed inside of Cells correlate with DNA Strand Breaks after Activation with Visible Light. <i>International Journal of Medical Sciences</i> , 2011, 8, 97-105.	1.1	19
45	Effects of charge-modifying mutations in histone H2A [±] 3-domain on nucleosome stability assessed by single-pair FRET and MD simulations. <i>Scientific Reports</i> , 2017, 7, 13303.	1.6	18
46	Binding of Cationic Porphyrin to Isolated DNA and Nucleoprotein Complex: Quantitative Analysis of Binding Forms under Various Experimental Conditions. <i>Biochemistry</i> , 2005, 44, 15000-15006.	1.2	17
47	DNA specificities modulate the binding of human transcription factor A to mitochondrial DNA control region. <i>Nucleic Acids Research</i> , 2019, 47, 6519-6537.	6.5	17
48	Rotational dynamics of curved DNA fragments studied by fluorescence polarization anisotropy. <i>European Biophysics Journal</i> , 2001, 29, 597-606.	1.2	16
49	Autofluorescent Proteins as Photosensitizer in Eukaryotes. <i>International Journal of Medical Sciences</i> , 2009, 6, 365-373.	1.1	16
50	Protein Flexibility and Synergy of HMG Domains Underlie U-Turn Bending of DNA by TFAM in Solution. <i>Biophysical Journal</i> , 2018, 114, 2386-2396.	0.2	16
51	DNA accessibility of chromatosomes quantified by automated image analysis of AFM data. <i>Scientific Reports</i> , 2019, 9, 12788.	1.6	16
52	Role of structure-proteins in the porphyrin-DNA interaction. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009, 96, 207-215.	1.7	15
53	MHC I Expression Regulates Co-clustering and Mobility of Interleukin-2 and -15 Receptors in T Cells. <i>Biophysical Journal</i> , 2016, 111, 100-112.	0.2	15
54	Defining the epichromatin epitope. <i>Nucleus</i> , 2017, 8, 625-640.	0.6	15

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55	UV-Induced small structural changes in the T7 bacteriophage studied by melting methods. <i>Biophysics of Structure and Mechanism</i> , 1983, 10, 229-239.	1.9	14
56	Superhelical DNA studied by solution scattering and computer models. <i>Genetica</i> , 1999, 106, 49-55.	0.5	14
57	Cell Cycle-Dependent Mobility of Cdc45 Determined in vivo by Fluorescence Correlation Spectroscopy. <i>PLoS ONE</i> , 2012, 7, e35537.	1.1	14
58	Transporter Molecules influence the Gene Expression in HeLa Cells. <i>International Journal of Medical Sciences</i> , 2009, 6, 18-27.	1.1	12
59	Biophysical characterization of histone H3.3 K27M point mutation. <i>Biochemical and Biophysical Research Communications</i> , 2017, 490, 868-875.	1.0	12
60	Retinoids induce Nur77-dependent apoptosis in mouse thymocytes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 660-670.	1.9	11
61	Characterization of new furocoumarin derivatives by their dark and light-mediated action on RNA bacteriophage MS2. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1988, 2, 209-220.	1.7	8
62	Random Motion of Chromatin Is Influenced by Lamin A Interconnections. <i>Biophysical Journal</i> , 2018, 114, 2465-2472.	0.2	8
63	Membrane Potential Distinctly Modulates Mobility and Signaling of IL-2 and IL-15 Receptors in T Cells. <i>Biophysical Journal</i> , 2018, 114, 2473-2482.	0.2	8
64	Simultaneous Mapping of Molecular Proximity and Comobility Reveals Agonist-Enhanced Dimerization and DNA Binding of Nuclear Receptors. <i>Analytical Chemistry</i> , 2020, 92, 2207-2215.	3.2	8
65	Loosening of the phage structure in a low ionic strength environment. <i>European Biophysics Journal</i> , 1988, 15, 293-298.	1.2	7
66	Symmetry and structure of bacteriophage T7. <i>Computers and Mathematics With Applications</i> , 1988, 16, 617-628.	1.4	7
67	Binding of new cationic porphyrin-tetrapeptide conjugates to nucleoprotein complexes. <i>Biophysical Chemistry</i> , 2013, 177-178, 14-23.	1.5	7
68	Comparison of light-induced formation of reactive oxygen species and the membrane destruction of two mesoporphyrin derivatives in liposomes. <i>Scientific Reports</i> , 2019, 9, 11312.	1.6	7
69	Raman study of isolated and in situ T7 phage DNA: conformation and possible interaction with the proteins. <i>Acta Physica Academiae Scientiarum Hungaricae</i> , 1982, 53, 25-32.	0.1	6
70	The diameter of the DNA superhelix decreases with salt concentration: SANS measurements and Monte Carlo simulations. <i>Journal of Applied Crystallography</i> , 2000, 33, 526-529.	1.9	6
71	Slow-decaying presynaptic calcium dynamics gate long-lasting asynchronous release at the hippocampal mossy fiber to CA3 pyramidal cell synapse. <i>Synapse</i> , 2020, 74, e22178.	0.6	6
72	IL-15 Trans-Presentation Is an Autonomous, Antigen-Independent Process. <i>Journal of Immunology</i> , 2021, 207, 2489-2500.	0.4	6

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73	Dark and photoreactivity of 4-aminomethyl-4,5,8-trimethylpsoralen with T7 phage. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1990, 5, 167-178.	1.7	5
74	DNA damaging capability of hematoporphyrin towards DNAs of various accessibilities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 84, 119-127.	1.7	5
75	DNA sequence-dependent positioning of the linker histone in a nucleosome: A single-pair FRET study. <i>Biophysical Journal</i> , 2021, 120, 3747-3763.	0.2	4
76	A small-angle scattering study of bacteriophage T7 using synchrotron radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 282, 486-489.	0.7	2
77	Non-Random Patterns of Membrane Proteins and Their Roles in Transmembrane Signaling. , 2005, , 71-95.		2
78	Quantitative Characterization of Photosensitizer-Nucleoprotein Interactions: a Comparison of 4,6,4-Trimethylangelicin and 4-Aminomethyl-4,5,8-Trimethylpsoralen. , 1991, , 211-218.		2
79	FRET Imaging by Laser Scanning Cytometry on Large Populations of Adherent Cells. <i>Current Protocols in Cytometry</i> , 2014, 70, 2.23.1-29.	3.7	1
80	Multiple Interaction Modes of the Nucleosomal Histone H3 N-Terminal Tail Revealed by High Precision Single-Molecule FRET. <i>Biophysical Journal</i> , 2019, 116, 468a-469a.	0.2	1
81	Diversity of ion channels. <i>Journal of Physiology</i> , 2021, 599, 2603-2604.	1.3	1
82	Role of C-Terminal Domain and Membrane Potential in the Mobility of Kv1.3 Channels in Immune Synapse Forming T Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3313.	1.8	1
83	Photoinduced Inactivation of T7 Phage Sensitized by Symmetrically and Asymmetrically Substituted Tetraphenyl Porphyrin: Comparison of Efficiency and Mechanism of Action. <i>Photochemistry and Photobiology</i> , 2001, 73, 304-311.	1.3	0
84	Nucleosome Dynamics Studied by Free Solution Single Molecule FRET. <i>Biophysical Journal</i> , 2010, 98, 477a.	0.2	0
85	Nucleosome Dynamics Studied by Single Pair FRET and Computer Simulations. <i>Biophysical Journal</i> , 2012, 102, 480a.	0.2	0
86	Nucleosome Dynamics Studied by Single-Pair FRET and Computer Simulations. <i>Biophysical Journal</i> , 2013, 104, 38a.	0.2	0
87	Selective Acetylation Reveals Distinct Roles of Histones H3 and H4 in Nucleosome Dynamics - a FRET Study. <i>Biophysical Journal</i> , 2014, 106, 430a.	0.2	0
88	How Histone Modifications Change Nucleosome Stability – FRET Studies on Single Molecules and in Bulk. <i>Microscopy and Microanalysis</i> , 2014, 20, 1204-1205.	0.2	0
89	Single Molecule Fluorescence Studies on Nucleosome Dynamics. <i>Biophysical Journal</i> , 2016, 110, 638a.	0.2	0
90	Nucleosome Opening Kinetics and the Influence of Histone Modifications Studied by Single Molecule FRET. <i>Biophysical Journal</i> , 2017, 112, 217a.	0.2	0

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91	How to Open a Nucleosome. Biophysical Journal, 2017, 112, 375a.	0.2	0
92	Single Molecule Fluorescence Studies on Nucleosome Dynamics. Biophysical Journal, 2017, 112, 474a.	0.2	0
93	Jürgen Langowski: his scientific legacy and the future it promises. BMC Biophysics, 2018, 11, 5.	4.4	0
94	The Other Histone: Probing the Role of Linker Histone in a Chromatosome. Biophysical Journal, 2018, 114, 684a.	0.2	0
95	The Genome as a Flexible Polymer Chain. , 2002, , 121-132.		0