List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7335485/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Towards absolute calibration of optical tweezers. Physical Review E, 2007, 75, 021914.	0.8	91
2	Extracting physical chemistry from mechanics: a new approach to investigate DNA interactions with drugs and proteins in single molecule experiments. Integrative Biology (United Kingdom), 2015, 7, 967-986.	0.6	53
3	Transition on the entropic elasticity of DNA induced by intercalating molecules. Journal of Chemical Physics, 2007, 127, 105108.	1.2	52
4	DNAâ€doxorubicin interaction: New insights and peculiarities. Biopolymers, 2017, 107, e22998.	1.2	49
5	Characterizing the interaction between DNA and GelRed fluorescent stain. European Biophysics Journal, 2015, 44, 1-7.	1.2	41
6	Quantitative Assessment of the Interplay Between DNA Elasticity and Cooperative Binding of Ligands. Physical Review Letters, 2012, 109, 248103.	2.9	40
7	Optical tweezers for undergraduates: Theoretical analysis and experiments. American Journal of Physics, 2009, 77, 704-712.	0.3	39
8	DNA interaction with Actinomycin D: mechanical measurements reveal the details of the binding data. Physical Chemistry Chemical Physics, 2013, 15, 11070.	1.3	36
9	Characterization of objective transmittance for optical tweezers. Applied Optics, 2006, 45, 4263.	2.1	35
10	Absolute calibration of optical tweezers. Applied Physics Letters, 2006, 88, 131110.	1.5	33
11	DNA–cisplatin interaction studied with single molecule stretching experiments. Integrative Biology (United Kingdom), 2012, 4, 568-574.	0.6	32
12	DNA-psoralen interaction: A single molecule experiment. Journal of Chemical Physics, 2004, 121, 9679-9683.	1.2	31
13	DNA Interaction with Hoechst 33258: Stretching Experiments Decouple the Different Binding Modes. Journal of Physical Chemistry B, 2013, 117, 7292-7296.	1.2	29
14	Force-dependent persistence length of DNA–intercalator complexes measured in single molecule stretching experiments. Soft Matter, 2015, 11, 4306-4314.	1.2	25
15	On the Effects of Intercalators in DNA Condensation: A Force Spectroscopy and Gel Electrophoresis Study. Journal of Physical Chemistry B, 2014, 118, 4832-4839.	1.2	22
16	Controlling Cooperativity in β-Cyclodextrin–DNA Binding Reactions. Journal of Physical Chemistry Letters, 2015, 6, 3549-3554.	2.1	22
17	Modeling the entropic structural transition of DNA complexes formed with intercalating drugs. Physical Biology, 2009, 6, 036013.	0.8	21
18	DNA-psoralen: Single-molecule experiments and first principles calculations. Applied Physics Letters, 2009, 95	1.5	21

#	Article	IF	CITATIONS
19	Force spectroscopy unravels the role of ionic strength on DNA-cisplatin interaction: Modulating the binding parameters. Physical Review E, 2017, 96, 032408.	0.8	21
20	How light absorption modifies the radiative force on a microparticle in optical tweezers. Applied Optics, 2018, 57, 7216.	0.9	19
21	DNA Interaction with Diaminobenzidine Studied with Optical Tweezers and Dynamic Light Scattering. Journal of Physical Chemistry B, 2013, 117, 14345-14350.	1.2	18
22	DNA interaction with DAPI fluorescent dye: Force spectroscopy decouples two different binding modes. Biopolymers, 2017, 107, e23015.	1.2	18
23	Topological Insulator Particles As Optically Induced Oscillators: Toward Dynamical Force Measurements and Optical Rheology. ACS Photonics, 2018, 5, 741-745.	3.2	18
24	DNA-cisplatin binding mechanism peculiarities studied with single molecule stretching experiments. Applied Physics Letters, 2012, 100, .	1.5	15
25	Videomicroscopy calibration of optical tweezers by position autocorrelation function analysis. Applied Physics B: Lasers and Optics, 2012, 107, 375-378.	1.1	15
26	Carboplatin as an alternative to Cisplatin in chemotherapies: New insights at single molecule level. Biophysical Chemistry, 2018, 241, 8-14.	1.5	15
27	Revisiting the neighbor exclusion model and its applications. Biopolymers, 2010, 93, 1-7.	1.2	14
28	Unraveling the physical chemistry and the mixed binding modes of complex DNA ligands by single molecule stretching experiments. RSC Advances, 2016, 6, 105631-105637.	1.7	13
29	Biophysical characterization of the DNA interaction with the biogenic polyamine putrescine: AÂsingle molecule study. International Journal of Biological Macromolecules, 2018, 112, 175-178.	3.6	13
30	Force and Scale Dependence of the Elasticity of Self-Assembled DNA Bottle Brushes. Macromolecules, 2018, 51, 204-212.	2.2	12
31	A cooperative transition from the semi-flexible to the flexible regime of polymer elasticity: Mitoxantrone-induced DNA condensation. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1107-1114.	1.1	11
32	Hydroxychloroquine Exhibits a Strong Complex Interaction with DNA: Unraveling the Mechanism of Action. Journal of Physical Chemistry Letters, 2020, 11, 9528-9534.	2.1	11
33	Effects of caffeine on the structure and conformation of DNA: A force spectroscopy study. International Journal of Biological Macromolecules, 2019, 130, 1018-1024.	3.6	10
34	Bessel beam optical tweezers for manipulating superparamagnetic beads. Applied Optics, 2021, 60, 3422.	0.9	10
35	Atomic Force Microscopy of spermidine-induced DNA condensates on silicon surfaces. Materials Science and Engineering C, 2012, 32, 36-39.	3.8	9
36	Depletion interactions and modulation of <scp>DNA</scp> â€intercalators binding: Opposite behavior of the "neutral―polymer poly(ethyleneâ€glycol). Biopolymers, 2016, 105, 227-233.	1.2	9

#	Article	IF	CITATIONS
37	New antineoplastic agent based on a dibenzoylmethane derivative: Cytotoxic effect and direct interaction with DNA. Biophysical Chemistry, 2018, 239, 1-6.	1.5	9
38	Model for DNA Interactions with Proteins and Other Large Ligands: Extracting Physical Chemistry from Pure Mechanical Measurements. Journal of Physical Chemistry B, 2020, 124, 1020-1024.	1.2	9
39	New tools to study biophysical properties of single molecules and single cells. Anais Da Academia Brasileira De Ciencias, 2007, 79, 17-28.	0.3	8
40	Doxorubicin hinders DNA condensation promoted by the protein bovine serum albumin (BSA). Biopolymers, 2017, 107, e23071.	1.2	8
41	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>β</mml:mi></mml:math> -Cyclodextrin polymer binding to DNA: Modulating the physicochemical parameters. Physical Review E, 2017, 95, 052416.	0.8	8
42	Optical Trapping and Manipulation of Superparamagnetic Beads Using Annular-Shaped Beams. Methods and Protocols, 2018, 1, 44.	0.9	8
43	Germanium microparticles as optically induced oscillators in optical tweezers. Physical Review Research, 2019, 1, .	1.3	8
44	Silicon microparticles as handles for optical tweezers experiments. Optics Letters, 2020, 45, 1055.	1.7	8
45	Unfolding DNA condensates produced by DNA-like charged depletants: A force spectroscopy study. Journal of Chemical Physics, 2017, 146, 054901.	1.2	7
46	Dodecyltrimethylammonium bromide surfactant effects on DNA: Unraveling the competition between electrostatic and hydrophobic interactions. Physical Review E, 2020, 102, 032401.	0.8	7
47	Pixantrone anticancer drug as a DNA ligand: Depicting the mechanism of action at single molecule level. European Physical Journal E, 2019, 42, 130.	0.7	6
48	On the use of Europium (Eu) for designing new metal-based anticancer drugs. Biochemical and Biophysical Research Communications, 2020, 531, 372-376.	1.0	6
49	Caffeine modulates the intercalation of drugs on DNA: A study at the single molecule level. Biophysical Chemistry, 2021, 277, 106653.	1.5	6
50	Transplatin ineffectiveness against cancer from a molecular perspective: A single-molecule force-spectroscopy study. Physical Review E, 2020, 101, 062412.	0.8	4
51	Normal and Tumoral Melanocytes Exhibit q-Gaussian Random Search Patterns. PLoS ONE, 2014, 9, e104253.	1.1	4
52	New Insights into the Mechanism of Action of the Drug Chloroquine: Direct Interaction with DNA and Cytotoxicity. Journal of Physical Chemistry B, 2022, 126, 3512-3521.	1.2	4
53	Oxaliplatin effects on the DNA molecule studied by force spectroscopy. Biomedical Physics and Engineering Express, 2019, 5, 055009.	0.6	2
54	Caffeine Enhances the Toxicity of Platinum-Based Drugs at the Molecular Level Even Outside of the Intracellular Environment: A Single-Molecule Force Spectroscopy Study. Journal of Physical Chemistry B, 2022, , .	1.2	2

#	Article	IF	CITATIONS
55	In situ laser power measurement at the focus of microscope objectives used in optical tweezers. American Journal of Physics, 2005, 73, 201-205.	0.3	1
56	Variation of entropic elasticity of DNA-Psoralen complex under UV light. , 2005, , .		0
57	Obtaining Quantitative Parameters of DNA-Ligand Cooperative Binding from Persistence Length Measurements. Biophysical Journal, 2013, 104, 178a.	0.2	0
58	Allyl Dibenzoylmethane Derivative: Antimelanoma Activity and Study of Its Molecular Mechanism of Interaction with DNA. Journal of the Brazilian Chemical Society, 0, , .	0.6	0
59	Optical Tweezers: Test of Absolute Calibration. , 2006, , .		0