Dimitar Angelov

List of Publications by Year
in descending order

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98	4,378	87888	114465
papers	citations	38 h-index	63 g-index

101	101	101	4487
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Histone Variant MacroH2A Interferes with Transcription Factor Binding and SWI/SNF Nucleosome Remodeling. Molecular Cell, 2003, 11, 1033-1041.	9.7	250
2	Structure and Dynamics of a 197Âbp Nucleosome in Complex with Linker Histone H1. Molecular Cell, 2017, 66, 384-397.e8.	9.7	225
3	Nucleolin is a histone chaperone with FACT-like activity and assists remodeling of nucleosomes. EMBO Journal, 2006, 25, 1669-1679.	7.8	219
4	Oxidatively generated complex DNA damage: Tandem and clustered lesions. Cancer Letters, 2012, 327, 5-15.	7.2	192
5	Single-base resolution mapping of H1â€“nucleosome interactions and 3D organization of the nucleosome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9620-9625.	7.1	178
6	A topological mechanism for TRF2-enhanced strand invasion. Nature Structural and Molecular Biology, 2007, 14, 147-154.	8.2	159
7	Extensive characterization of NF-ÎºB binding uncovers non-canonical motifs and advances the interpretation of genetic functional traits. Genome Biology, 2011, 12, R70.	9.6	137
8	High-Intensity UV Laser Photolysis of DNA and Purine 2â€˜-Deoxyribonucleosides:Â Formation of 8-Oxopurine Damage and Oligonucleotide Strand Cleavage as Revealed by HPLC and Gel Electrophoresis Studies. Journal of the American Chemical Society, 1997, 119, 11373-11380.	13.7	129
9	Persistent Interactions of Core Histone Tails with Nucleosomal DNA following Acetylation and Transcription Factor Binding. Molecular and Cellular Biology, 1998, 18, 6293-6304.	2.3	129
10	Mechanism of Polymerase II Transcription Repression by the Histone Variant macroH2A. Molecular and Cellular Biology, 2006, 26, 1156-1164.	2.3	129
11	Crosslinking proteins to nucleic acids by ultraviolet laser irradiation. Trends in Biochemical Sciences, 1991, 16, 323-326.	7.5	115
12	Influence of the Local Helical Conformation on the Guanine Modifications Generated from One-Electron DNA Oxidation. Biochemistry, 1997, 36, 6571-6576.	2.5	111
13	Dissection of the unusual structural and functional properties of the variant H2A.Bbd nucleosome. EMBO Journal, 2006, 25, 4234-4244.	7.8	103
14	ATP-Dependent Chromatin Remodeling Is Required for Base Excision Repair in Conventional but Not in Variant H2A.Bbd Nucleosomes. Molecular and Cellular Biology, 2007, 27, 5949-5956.	2.3	103
15	Preferential interaction of the core histone tail domains with linker DNA. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6599-6604.	7.1	97
16	UV Laser Photolysis of DNA:Â Effect of Duplex Stability on Charge-Transfer Efficiency. Journal of the American Chemical Society, 2001, 123, 11360-11366.	13.7	96
17	Structure of an H1-Bound 6-Nucleosome Array Reveals an Untwisted Two-Start Chromatin Fiber Conformation. Molecular Cell, 2018, 72, 902-915.e7.	9.7	93
18	Histone Octamer Instability under Single Molecule Experiment Conditions. Journal of Biological Chemistry, 2005, 280, 19958-19965.	3.4	87

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19	The N-terminus of histone H2B, but not that of histone H3 or its phosphorylation, is essential for chromosome condensation. EMBO Journal, 2001, 20, 6383-6393.	7.8	76
20	Evidence for ARGONAUTE4â€“DNA interactions in RNA-directed DNA methylation in plants. Genes and Development, 2016, 30, 2565-2570.	5.9	75
21	The Flexible Ends of CENP-A Nucleosome Are Required for Mitotic Fidelity. Molecular Cell, 2016, 63, 674-685.	9.7	72
22	DETERMINATION OF PARAMETERS OF EXCITED STATES OF DNA and RNA BASES BY LASER UV PHOTOLYSIS. Photochemistry and Photobiology, 1982, 35, 627-635.	2.5	67
23	SWI/SNF remodeling and p300-dependent transcription of histone variant H2ABbd nucleosomal arrays. EMBO Journal, 2004, 23, 3815-3824.	7.8	66
24	Base excision repair of 8-oxoG in dinucleosomes. Nucleic Acids Research, 2012, 40, 692-700.	14.5	62
25	The Histone Octamer Is Invisible When NF-ÎºB Binds to the Nucleosome. Journal of Biological Chemistry, 2004, 279, 42374-42382.	3.4	60
26	The docking domain of histone H2A is required for H1 binding and RSC-mediated nucleosome remodeling. Nucleic Acids Research, 2011, 39, 2559-2570.	14.5	56
27	Proteinâ€”DNA crosslinking in reconstituted nucleohistone, nuclei and whole cells by picosecond UV laser irradiation. Nucleic Acids Research, 1988, 16, 4525-4538.	14.5	54
28	pEg2 Aurora-A Kinase, Histone H3 Phosphorylation, and Chromosome Assembly in Xenopus Egg Extract. Journal of Biological Chemistry, 2001, 276, 30002-30010.	3.4	53
29	The NH 2 Tail of the Novel Histone Variant H2BFWT Exhibits Properties Distinct from Conventional H2B with Respect to the Assembly of Mitotic Chromosomes. Molecular and Cellular Biology, 2006, 26, 1518-1526.	2.3	53
30	Binding of NF-ÎºB to Nucleosomes: Effect of Translational Positioning, Nucleosome Remodeling and Linker Histone H1. PLoS Genetics, 2013, 9, e1003830.	3.5	50
31	Direct measurement of excited singlet-state lifetime in the homologous sequence adenine, adenosine, adenosine 5â€²-monophosphate and in calf thymus DNA. Chemical Physics Letters, 1996, 252, 322-326.	2.6	49
32	Laser-induced crosslinking of histones to DNA in chromatin and core particles: implications in studying histone-DNA interactions. Nucleic Acids Research, 1989, 17, 10069-10081.	14.5	48
33	Effects of Duplex Stability on Charge-Transfer Efficiency within DNA. Topics in Current Chemistry, 2004, , 1-25.	4.0	48
34	Involvement of Retinoblastoma Protein and HBP1 in Histone H1 0 Gene Expression. Molecular and Cellular Biology, 2000, 20, 6627-6637.	2.3	46
35	Remosomes: RSC generated non-mobilized particles with approximately 180Âbp DNA loosely associated with the histone octamer. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1936-1941.	7.1	45
36	From crystal and NMR structures, footprints and cryo-electron-micrographs to large and soft structures: nanoscale modeling of the nucleosomal stem. Nucleic Acids Research, 2011, 39, 9139-9154.	14.5	44

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37	The incorporation of the novel histone variant H2AL2 confers unusual structural and functional properties of the nucleosome. Nucleic Acids Research, 2009, 37, 4684-4695.	14.5	43
38	Direct Cooperation Between Androgen Receptor and E2F1 Reveals a Common Regulation Mechanism for Androgen-Responsive Genes in Prostate Cells. Molecular Endocrinology, 2012, 26, 1531-1541.	3.7	40
39	FACT Assists Base Excision Repair by Boosting the Remodeling Activity of RSC. PLoS Genetics, 2016, 12, e1006221.	3.5	39
40	The thyroid hormone nuclear receptor TRÎ±1 controls the Notch signaling pathway and cell fate in murine intestine. Development (Cambridge), 2015, 142, 2764-2774.	2.5	35
41	The enhancers and promoters of theXenopus laevis; ribosomal spacer are associated with histones upon active transcription of the ribosomal genes. Nucleic Acids Research, 1990, 18, 6393-6397.	14.5	34
42	Differential remodeling of the HIV-1 nucleosome upon transcription activators and SWI/SNF complex binding 1 1Edited by M. Yaniv. Journal of Molecular Biology, 2000, 302, 315-326.	4.2	34
43	Formation of free radicals in water under high-power laser uv irradiation. Chemical Physics Letters, 1981, 77, 208-210.	2.6	33
44	HYDRATED ELECTRON FORMATION IN NANOSECOND and PICOSECOND LASER FLASH PHOTOLYSIS OF HEMATOPORPHYRIN IN AQUEOUS SOLUTION. Photochemistry and Photobiology, 1991, 54, 673-681.	2.5	33
45	Experimental and theoretical studies of sequence effects on the fluctuation and melting of short DNA molecules. Journal of Physics Condensed Matter, 2009, 21, 034103.	1.8	33
46	Phase-plate cryo-EM structure of the Widom 601 CENP-A nucleosome core particle reveals differential flexibility of the DNA ends. Nucleic Acids Research, 2020, 48, 5735-5748.	14.5	27
47	The Dynamics of Individual Nucleosomes Controls the Chromatin Condensation Pathway: Direct Atomic Force Microscopy Visualization of Variant Chromatin. Biophysical Journal, 2009, 97, 544-553.	0.5	25
48	Chromatin associated mechanisms in base excision repair - nucleosome remodeling and DNA transcription, two key players. Free Radical Biology and Medicine, 2017, 107, 159-169.	2.9	24
49	Multi-Level Interactions between the Nuclear Receptor TRÎ±1 and the WNT Effectors Î²-Catenin/Tcf4 in the Intestinal Epithelium. PLoS ONE, 2012, 7, e34162.	2.5	23
50	Biphotonic Ionization of <scp>DNA</scp>: From Model Studies to Cell. Photochemistry and Photobiology, 2019, 95, 59-72.	2.5	22
51	Title is missing!. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 2053-2069.	1.6	21
52	Efficient cleavage of single and clustered AP site lesions within mono-nucleosome templates by CHO-K1 nuclear extract contrasts with retardation of incision by purified APE1. DNA Repair, 2015, 35, 27-36.	2.8	21
53	Interactions of acetylated histones with DNA as revealed by UV laser induced histone-DNA crosslinking. Biochemical and Biophysical Research Communications, 1989, 164, 304-310.	2.1	20
54	RSC remodeling of oligo-nucleosomes: an atomic force microscopy study. Nucleic Acids Research, 2011, 39, 2571-2579.	14.5	20

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55	Origin of the Heterogeneous Distribution of the Yield of Guanyl Radical in UV Laser Photolyzed DNA. Biophysical Journal, 2005, 88, 2766-2778.	0.5	19
56	Guanine radical chemistry reveals the effect of thermal fluctuations in gene promoter regions. Nucleic Acids Research, 2011, 39, 5276-5283.	14.5	18
57	Solution Study of the NF-Î°B p50â€“DNA Complex by UV Laser Proteinâ€“DNA Cross-linkingÂ¶. Photochemistry and Photobiology, 2003, 77, 592.	2.5	16
58	Temperature-dependence of UV Laser One-electron Oxidative Guanine Modifications as a Probe of Local Stacking Fluctuations and Conformational Transitions. Journal of Molecular Biology, 2002, 323, 9-15.	4.2	14
59	Selective action on nucleic acids components by picosecond light pulses. Applied Physics Berlin, 1980, 21, 391-395.	1.4	13
60	Ultraviolet Laser Footprinting of Histone H1Â°â˜Four-Way Junction DNA Complexesâ€. Biochemistry, 1999, 38, 11333-11339.	2.5	13
61	Cell cycle regulated expression of NCoR might control cyclic expression of androgen responsive genes in an immortalized prostate cell line. Molecular and Cellular Endocrinology, 2011, 332, 149-162.	3.2	13
62	Autoionisation decay of highly excited Rydberg Tm states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3877-3890.	1.5	12
63	A Picosecond Flashâ€Photolysis Study of the Biphotonic Ionization of Psoralen Derivatives and Ethidium Bromide. Photochemistry and Photobiology, 1997, 65, 517-521.	2.5	12
64	Adding a new dimension to DNA melting curves. Europhysics Letters, 2009, 87, 48009.	2.0	10
65	Investigation of lutetium rydberg states by laser multistep resonance ionization spectroscopy. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1992, 23, 215-218.	1.0	9
66	Centromeric histone variant CENP-A represses acetylation-dependent chromatin transcription that is relieved by histone chaperone NPM1. Journal of Biochemistry, 2014, 156, 221-227.	1.7	9
67	Rydberg and autoionization tm states investigation by the three-step laser excitation and electric field ionization method. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1987, 5, 287-292.	1.0	8
68	Laser spectroscopy measurement of radiative lifetimes of highly excited thulium Rydberg states. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 2295.	2.1	8
69	Photoproducts generated from hematoporphyrin under high-intensity picosecond flash photolysis. Radiation and Environmental Biophysics, 1990, 29, 225-239.	1.4	7
70	A Preparative Method for Crosslinking Proteins to DNA in Nuclei by Single-pulse UV Laser Irradiation. Photochemistry and Photobiology, 1997, 66, 42-45.	2.5	7
71	Fluctuations in the DNA double helix. European Physical Journal: Special Topics, 2007, 147, 173-189.	2.6	7
72	Kinky DNA in solution: Small-angle-scattering study of a nucleosome positioning sequence. Physical Review E, 2018, 98, .	2.1	7

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73	Determination of traces of lutetium in geological samples by resonance ionization spectroscopy. Journal of Analytical Atomic Spectrometry, 1993, 8, 1029.	3.0	6
74	Laser resonance ionization spectroscopy of the cerium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 667-678.	1.5	6
75	Hydroxyl radical is predominantly involved in oxidatively generated base damage to cellular DNA exposed to ionizing radiation. International Journal of Radiation Biology, 2022, 98, 1684-1690.	1.8	6
76	Two-photon photolysis of water and its role in two-stage photodecompositon of aqueous solutions of DNA components. Soviet Journal of Quantum Electronics, 1980, 10, 1502-1505.	0.1	5
77	Tm autoionization rydberg states in the vicinity of the third and fourth atomic ionization limit. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1989, 13, 115-121.	1.0	4
78	Generation of Remosomes by the SWI/SNF Chromatin Remodeler Family. Scientific Reports, 2019, 9, 14212.	3.3	4
79	Comparison of the effects of high-power U.V.-laser pulses and ionizing radiation on nucleic acids and related compounds. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1991, 37, 717-727.	0.0	3
80	Extra views on structure and dynamics of DNA loops on nucleosomes studied with molecular simulations. Nucleus, 2016, 7, 554-559.	2.2	3
81	Hematoporphyrin-sensitized degradation of deoxyribose and DNA in high intensity near-UV picosecond pulsed laser photolysis. Radiation Physics and Chemistry, 1995, 45, 111-119.	2.8	2
82	Injection seeding in a dual-cavity gain-switched Ti:Sapphire laser. Journal of Modern Optics, 2000, 47, 793-803.	1.3	2
83	Solution Study of the NF-Î°B p50-DNA Complex by UV Laser Protein-DNA Cross-linkingÂ¶. Photochemistry and Photobiology, 2007, 77, 592-596.	2.5	2
84	Multiply-self-seeded pulsed Ti:Sapphire laser. Optics Communications, 1999, 172, 69-76.	2.1	1
85	Light-induced absorption in pure and doped Bi 12 TiO 20 monocrystals by using high-intensity laser pulses. , 2001, , .		1
86	Small-angle scattering as a tool to study the thermal denaturation of DNA. Europhysics Letters, 2014, 108, 18002.	2.0	1
87	Interstrand Crosslinking Involving Guanine: A New Major UVC Laserâ€Induced Biphotonic Oxidatively Generated DNA Damage â€. Photochemistry and Photobiology, 2021, , .	2.5	1
88	Efficiency of two-stage photolysis of DNA bases by high-power ultraviolet laser radiation. Soviet Journal of Quantum Electronics, 1981, 11, 359-362.	0.1	0
89	Laser Photoionization Set-Up For Investigation Of Highly-Excited Atomic States. , 1985, , .		0
90	High-power UV laser photolysis of nucleosides: final product analysis. , 1991, 1403, 575.		0

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91	Picosecond laser cross, linking histones to DNA in chromatin: implication in studying histone-DNA interactions. , 1991, , .		0
92	Generation of free radicals in high-intensity laser photolysis of organic microcyclic compounds: time-resolved spectroscopy and EPR study. , 1991, , .		0
93	<title>Injection-seeding-induced lasing in a below-threshold-pumped tunable laser</title>. , 1996, , .		0
94	Dynamic Methods for Investigating the Conformational Changes of Biological Macromolecules. , 2010, , .		0
95	Correction for Shukla et al., Remosomes: RSC generated non-mobilized particles with approximately 180 bp DNA loosely associated with the histone octamer. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8041-8041.	7.1	0
96	RSC is an Efficient Nucleosome Randomizer: An AFM Quantitative Study on Oligo-Nucleosomal Templates. Biophysical Journal, 2010, 98, 474a.	0.5	0
97	Chromatin Structure and Dynamics: Histone Variants and Remodeling Complexes. Biophysical Journal, 2012, 102, 480a.	0.5	0
98	Injection seeding in a dual-cavity gain-switched Ti:Sapphire laser. Journal of Modern Optics, 2000, 47, 793-803.	1.3	0