

# Dimitar Angelov

## List of Publications by Year in descending order

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98  
papers

4,378  
citations

87888

38  
h-index

114465

63  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxyl radical is predominantly involved in oxidatively generated base damage to cellular DNA exposed to ionizing radiation. <i>International Journal of Radiation Biology</i> , 2022, 98, 1684-1690.	1.8	6
2	Interstrand Crosslinking Involving Guanine: A New Major UVC Laser-Induced Biphotonic Oxidatively Generated DNA Damage. <i>Photochemistry and Photobiology</i> , 2021, , .	2.5	1
3	Phase-plate cryo-EM structure of the Widom 601 CENP-A nucleosome core particle reveals differential flexibility of the DNA ends. <i>Nucleic Acids Research</i> , 2020, 48, 5735-5748.	14.5	27
4	Generation of Remosomes by the SWI/SNF Chromatin Remodeler Family. <i>Scientific Reports</i> , 2019, 9, 14212.	3.3	4
5	Biphotonic Ionization of DNA: From Model Studies to Cell. <i>Photochemistry and Photobiology</i> , 2019, 95, 59-72.	2.5	22
6	Kinky DNA in solution: Small-angle-scattering study of a nucleosome positioning sequence. <i>Physical Review E</i> , 2018, 98, .	2.1	7
7	Structure of an H1-Bound 6-Nucleosome Array Reveals an Untwisted Two-Start Chromatin Fiber Conformation. <i>Molecular Cell</i> , 2018, 72, 902-915.e7.	9.7	93
8	Structure and Dynamics of a 197Åbp Nucleosome in Complex with Linker Histone H1. <i>Molecular Cell</i> , 2017, 66, 384-397.e8.	9.7	225
9	Chromatin associated mechanisms in base excision repair - nucleosome remodeling and DNA transcription, two key players. <i>Free Radical Biology and Medicine</i> , 2017, 107, 159-169.	2.9	24
10	Extra views on structure and dynamics of DNA loops on nucleosomes studied with molecular simulations. <i>Nucleus</i> , 2016, 7, 554-559.	2.2	3
11	Evidence for ARGONAUTE4-DNA interactions in RNA-directed DNA methylation in plants. <i>Genes and Development</i> , 2016, 30, 2565-2570.	5.9	75
12	The Flexible Ends of CENP-A Nucleosome Are Required for Mitotic Fidelity. <i>Molecular Cell</i> , 2016, 63, 674-685.	9.7	72
13	FACT Assists Base Excision Repair by Boosting the Remodeling Activity of RSC. <i>PLoS Genetics</i> , 2016, 12, e1006221.	3.5	39
14	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. <i>DNA Repair</i> , 2015, 35, 27-36.	2.8	21
15	The thyroid hormone nuclear receptor TR1 controls the Notch signaling pathway and cell fate in murine intestine. <i>Development (Cambridge)</i> , 2015, 142, 2764-2774.	2.5	35
16	Small-angle scattering as a tool to study the thermal denaturation of DNA. <i>Europhysics Letters</i> , 2014, 108, 18002.	2.0	1
17	Centromeric histone variant CENP-A represses acetylation-dependent chromatin transcription that is relieved by histone chaperone NPM1. <i>Journal of Biochemistry</i> , 2014, 156, 221-227.	1.7	9
18	Binding of NF-κB to Nucleosomes: Effect of Translational Positioning, Nucleosome Remodeling and Linker Histone H1. <i>PLoS Genetics</i> , 2013, 9, e1003830.	3.5	50

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19	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
20	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
21	Base excision repair of 8-oxoG in dinucleosomes. Nucleic Acids Research, 2012, 40, 692-700.	14.5	62
22	Chromatin Structure and Dynamics: Histone Variants and Remodeling Complexes. Biophysical Journal, 2012, 102, 480a.	0.5	0
23	Oxidatively generated complex DNA damage: Tandem and clustered lesions. Cancer Letters, 2012, 327, 5-15.	7.2	192
24	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
25	Extensive characterization of NF-Î²B binding uncovers non-canonical motifs and advances the interpretation of genetic functional traits. Genome Biology, 2011, 12, R70.	9.6	137
26	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
27	RSC remodeling of oligo-nucleosomes: an atomic force microscopy study. Nucleic Acids Research, 2011, 39, 2571-2579.	14.5	20
28	Guanine radical chemistry reveals the effect of thermal fluctuations in gene promoter regions. Nucleic Acids Research, 2011, 39, 5276-5283.	14.5	18
29	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
30	Dynamic Methods for Investigating the Conformational Changes of Biological Macromolecules. , 2010, , .		0
31	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
32	Remosomes: RSC generated non-mobilized particles with approximately 180Åbp 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
33	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
34	RSC is an Efficient Nucleosome Randomizer: An AFM Quantitative Study on Oligo-Nucleosomal Templates. Biophysical Journal, 2010, 98, 474a.	0.5	0
35	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
36	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

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37	The Dynamics of Individual Nucleosomes Controls the Chromatin Condensation Pathway: Direct Atomic Force Microscopy Visualization of Variant Chromatin. <i>Biophysical Journal</i> , 2009, 97, 544-553.	0.5	25
38	Adding a new dimension to DNA melting curves. <i>Europhysics Letters</i> , 2009, 87, 48009.	2.0	10
39	ATP-Dependent Chromatin Remodeling Is Required for Base Excision Repair in Conventional but Not in Variant H2A.Bbd Nucleosomes. <i>Molecular and Cellular Biology</i> , 2007, 27, 5949-5956.	2.3	103
40	A topological mechanism for TRF2-enhanced strand invasion. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 147-154.	8.2	159
41	Solution Study of the NF- $\kappa$ B p50-DNA Complex by UV Laser Protein-DNA Cross-linking. <i>Photochemistry and Photobiology</i> , 2007, 77, 592-596.	2.5	2
42	Fluctuations in the DNA double helix. <i>European Physical Journal: Special Topics</i> , 2007, 147, 173-189.	2.6	7
43	Nucleolin is a histone chaperone with FACT-like activity and assists remodeling of nucleosomes. <i>EMBO Journal</i> , 2006, 25, 1669-1679.	7.8	219
44	Dissection of the unusual structural and functional properties of the variant H2A.Bbd nucleosome. <i>EMBO Journal</i> , 2006, 25, 4234-4244.	7.8	103
45	The NH 2 Tail of the Novel Histone Variant H2BFWT Exhibits Properties Distinct from Conventional H2B with Respect to the Assembly of Mitotic Chromosomes. <i>Molecular and Cellular Biology</i> , 2006, 26, 1518-1526.	2.3	53
46	Mechanism of Polymerase II Transcription Repression by the Histone Variant macroH2A. <i>Molecular and Cellular Biology</i> , 2006, 26, 1156-1164.	2.3	129
47	Histone Octamer Instability under Single Molecule Experiment Conditions. <i>Journal of Biological Chemistry</i> , 2005, 280, 19958-19965.	3.4	87
48	Origin of the Heterogeneous Distribution of the Yield of Guanyl Radical in UV Laser Photolyzed DNA. <i>Biophysical Journal</i> , 2005, 88, 2766-2778.	0.5	19
49	The Histone Octamer Is Invisible When NF- $\kappa$ B Binds to the Nucleosome. <i>Journal of Biological Chemistry</i> , 2004, 279, 42374-42382.	3.4	60
50	Effects of Duplex Stability on Charge-Transfer Efficiency within DNA. <i>Topics in Current Chemistry</i> , 2004, , 1-25.	4.0	48
51	SWI/SNF remodeling and p300-dependent transcription of histone variant H2ABbd nucleosomal arrays. <i>EMBO Journal</i> , 2004, 23, 3815-3824.	7.8	66
52	The Histone Variant MacroH2A Interferes with Transcription Factor Binding and SWI/SNF Nucleosome Remodeling. <i>Molecular Cell</i> , 2003, 11, 1033-1041.	9.7	250
53	Solution Study of the NF- $\kappa$ B p50-DNA Complex by UV Laser Protein-DNA Cross-linking. <i>Photochemistry and Photobiology</i> , 2003, 77, 592.	2.5	16
54	Temperature-dependence of UV Laser One-electron Oxidative Guanine Modifications as a Probe of Local Stacking Fluctuations and Conformational Transitions. <i>Journal of Molecular Biology</i> , 2002, 323, 9-15.	4.2	14

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55	UV Laser Photolysis of DNA: Effect of Duplex Stability on Charge-Transfer Efficiency. Journal of the American Chemical Society, 2001, 123, 11360-11366.	13.7	96
56	Light-induced absorption in pure and doped Bi 12 TiO 20 monocrystals by using high-intensity laser pulses. , 2001, , .		1
57	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
58	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
59	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
60	Involvement of Retinoblastoma Protein and HBP1 in Histone H1 O Gene Expression. Molecular and Cellular Biology, 2000, 20, 6627-6637.	2.3	46
61	Differential remodeling of the HIV-1 nucleosome upon transcription activators and SWI/SNF complex binding 1 Edited by M. Yaniv. Journal of Molecular Biology, 2000, 302, 315-326.	4.2	34
62	Injection seeding in a dual-cavity gain-switched Ti:Sapphire laser. Journal of Modern Optics, 2000, 47, 793-803.	1.3	2
63	Injection seeding in a dual-cavity gain-switched Ti:Sapphire laser. Journal of Modern Optics, 2000, 47, 793-803.	1.3	0
64	Multiply-self-seeded pulsed Ti:Sapphire laser. Optics Communications, 1999, 172, 69-76.	2.1	1
65	Ultraviolet Laser Footprinting of Histone H1 Four-Way Junction DNA Complexes. Biochemistry, 1999, 38, 11333-11339.	2.5	13
66	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
67	High-Intensity UV Laser Photolysis of DNA and Purine 2-Deoxyribonucleosides: 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
68	Influence of the Local Helical Conformation on the Guanine Modifications Generated from One-Electron DNA Oxidation. Biochemistry, 1997, 36, 6571-6576.	2.5	111
69	Laser resonance ionization spectroscopy of the cerium atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 667-678.	1.5	6
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	A Picosecond Flash Photolysis Study of the Biphotonic Ionization of Psoralen Derivatives and Ethidium Bromide. Photochemistry and Photobiology, 1997, 65, 517-521.	2.5	12
72	Direct measurement of excited singlet-state lifetime in the homologous sequence adenine, adenosine, adenosine 5'-monophosphate and in calf thymus DNA. Chemical Physics Letters, 1996, 252, 322-326.	2.6	49

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73	<title>Injection-seeding-induced lasing in a below-threshold-pumped tunable laser</title>. , 1996, , .		0
74	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
75	Determination of traces of lutetium in geological samples by resonance ionization spectroscopy. Journal of Analytical Atomic Spectrometry, 1993, 8, 1029.	3.0	6
76	Investigation of lutetium rydberg states by laser multistep resonance ionization spectroscopy. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1992, 23, 215-218.	1.0	9
77	Crosslinking proteins to nucleic acids by ultraviolet laser irradiation. Trends in Biochemical Sciences, 1991, 16, 323-326.	7.5	115
78	High-power UV laser photolysis of nucleosides: final product analysis. , 1991, 1403, 575.		0
79	Picosecond laser cross, linking histones to DNA in chromatin: implication in studying histone-DNA interactions. , 1991, , .		0
80	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
81	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
82	Generation of free radicals in high-intensity laser photolysis of organic microcyclic compounds: time-resolved spectroscopy and EPR study. , 1991, , .		0
83	Photoproducts generated from hematoporphyrin under high-intensity picosecond flash photolysis. Radiation and Environmental Biophysics, 1990, 29, 225-239.	1.4	7
84	The enhancers and promoters of the <i>Xenopus laevis</i> ; ribosomal spacer are associated with histones upon active transcription of the ribosomal genes. Nucleic Acids Research, 1990, 18, 6393-6397.	14.5	34
85	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
86	Tm autoionization rydberg states in the vicinity of the third and fourth atomic ionization limit. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 13, 115-121.	1.0	4
87	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
88	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
89	Autoionisation decay of highly excited Rydberg Tm states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3877-3890.	1.5	12
90	Protein-DNA crosslinking in reconstituted nucleohistone, nuclei and whole cells by picosecond UV laser irradiation. Nucleic Acids Research, 1988, 16, 4525-4538.	14.5	54

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91	Rydberg and autoionization tm states investigation by the three-step laser excitation and electric field ionization method. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1987, 5, 287-292.	1.0	8
92	Title is missing!. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 2053-2069.	1.6	21
93	Laser Photoionization Set-Up For Investigation Of Highly-Excited Atomic States. , 1985, , .		0
94	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
95	Formation of free radicals in water under high-power laser uv irradiation. Chemical Physics Letters, 1981, 77, 208-210.	2.6	33
96	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
97	Selective action on nucleic acids components by picosecond light pulses. Applied Physics Berlin, 1980, 21, 391-395.	1.4	13
98	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