Janusz Rak

List of Publications by Year in descending order

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144 papers	2,956 citations	147801 31 h-index	223800 46 g-index
145 all docs	145 docs citations	145 times ranked	1930 citing authors

#	Article	IF	Citations
1	Low-Energy Tautomers and Conformers of Neutral and Protonated Arginine. Journal of the American Chemical Society, 2001, 123, 11695-11707.	13.7	133
2	Calculation of Quantum-Mechanical Descriptors for QSPR at the DFT Level: Is It Necessary?. Journal of Chemical Information and Modeling, 2008, 48, 1174-1180.	5.4	110
3	Consequences of proton transfer in guanidine. Journal of Physical Organic Chemistry, 2003, 16, 91-106.	1.9	109
4	AT Base Pair Anions versus (9-Methyl-A)(1-Methyl-T) Base Pair Anions. Journal of the American Chemical Society, 2005, 127, 6443-6450.	13.7	84
5	Stabilization of very rare tautomers of uracil by an excess electron. Physical Chemistry Chemical Physics, 2005, 7, 2116.	2.8	73
6	Mechanisms of Damage to DNA Labeled with Electrophilic Nucleobases Induced by Ionizing or UV Radiation. Journal of Physical Chemistry B, 2015, 119, 8227-8238.	2.6	73
7	Toward an Understanding of the Chemiluminescence Accompanying the Reaction of 9-Carboxy-10-methylacridinium Phenyl Ester with Hydrogen Peroxide. Journal of Organic Chemistry, 1999, 64, 3002-3008.	3.2	67
8	Quasidegeneracy of Zwitterionic and Canonical Tautomers of Arginine Solvated by an Excess Electron. Journal of the American Chemical Society, 2001, 123, 11073-11074.	13.7	64
9	Properties of Closed-Shell, Octahedral, Multiply-Charged Hexafluorometallates MF63-, M = Sc, Y, La, ZrF62-, and TaF6-. Journal of the American Chemical Society, 1996, 118, 1173-1180.	13.7	59
10	Photoelectron spectroscopy of adiabatically bound valence anions of rare tautomers of the nucleic acid bases. Journal of Chemical Physics, 2007, 127, 174309.	3.0	59
11	How to Find Out Whether a 5-Substituted Uracil Could Be a Potential DNA Radiosensitizer. Journal of Physical Chemistry Letters, 2013, 4, 2853-2857.	4.6	59
12	Fundamental Mechanisms of DNA Radiosensitization: Damage Induced by Low-Energy Electrons in Brominated Oligonucleotide Trimers. Journal of Physical Chemistry B, 2012, 116, 9676-9682.	2.6	57
13	Barrier-free intermolecular proton transfer induced by excess electron attachment to the complex of alanine with uracil. Journal of Chemical Physics, 2004, 120, 6064-6071.	3.0	55
14	Intermolecular Proton Transfer in Anionic Complexes of Uracil with Alcohols. Journal of Physical Chemistry B, 2005, 109, 13383-13391.	2.6	55
15	Excess Electron Attachment Induces Barrier-Free Proton Transfer in Binary Complexes of Uracil with H2Se and H2S but Not with H2O. Journal of Physical Chemistry B, 2003, 107, 7889-7895.	2.6	53
16	Electron-Induced Elimination of the Bromide Anion from Brominated Nucleobases. A Computational Study. Journal of Physical Chemistry B, 2012, 116, 5612-5619.	2.6	52
17	Anab initiostudy of the betaine anionâ€“dipole-bound anionic state of a model zwitterion system. Journal of Chemical Physics, 2001, 114, 10673-10681.	3.0	49
18	Computational Study of Hydrogen-Bonded Complexes between the Most Stable Tautomers of Glycine and Uracil. Journal of Physical Chemistry A, 2002, 106, 7423-7433.	2.5	49

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19	Barrier-free proton transfer in anionic complex of thymine with glycine. Physical Chemistry Chemical Physics, 2004, 6, 4351-4357.	2.8	49
20	The origin of luminescence accompanying electrochemical reduction or chemical decomposition of peroxydisulfates. Journal of Luminescence, 2003, 105, 27-34.	3.1	44
21	Excess Electron Attachment Induces Barrier-Free Proton Transfer in Anionic Complexes of Thymine and Uracil with Formic Acid. Journal of Physical Chemistry B, 2004, 108, 6919-6921.	2.6	44
22	On the Unusual Stability of Valence Anions of Thymine Based on Very Rare Tautomers:Â A Computational Study. Journal of Physical Chemistry B, 2006, 110, 24696-24707.	2.6	44
23	TG-FTIR, DSC and quantum chemical studies of the thermal decomposition of quaternary methylammonium halides. Chemical Physics, 2006, 324, 425-437.	1.9	40
24	Hartreeâ^'Fock and Density Functional Methods and IR and NMR Spectroscopies in the Examination of Tautomerism and Features of Neutral 9-Acridinamine in Gaseous and Condensed Media. Journal of Physical Chemistry A, 1997, 101, 283-292.	2.5	39
25	Valence Anions in Complexes of Adenine and 9-Methyladenine with Formic Acid:Â Stabilization by Intermolecular Proton Transfer. Journal of the American Chemical Society, 2007, 129, 1216-1224.	13.7	37
26	Effects of intra base-pairs flexibility on hole transfer coupling in DNA. Chemical Physics Letters, 2006, 429, 546-550.	2.6	35
27	Interaction with Glycine Increases Stability of a Mutagenic Tautomer of Uracil. A Density Functional Theory Study. Journal of the American Chemical Society, 2005, 127, 2238-2248.	13.7	34
28	Valence Anions of 9-Methylguanineâ^'1-Methylcytosine Complexes. Computational and Photoelectron Spectroscopy Studies. Journal of the American Chemical Society, 2009, 131, 2663-2669.	13.7	33
29	Stabilization of Very Rare Tautomers of 1-Methylcytosine by an Excess Electronâ€. Journal of Physical Chemistry A, 2005, 109, 11495-11503.	2.5	32
30	A first-principles study of electron attachment to the fully hydrated bromonucleobases. Chemical Physics Letters, 2014, 595-596, 133-137.	2.6	32
31	Lowâ€Energyâ€Barrier Proton Transfer Induced by Electron Attachment to the Guanineâ‹…â‹…â‹…Cytosine Base Pair. ChemPhysChem, 2010, 11, 880-888.	2.1	31
32	5-Thiocyanato-2â€²-deoxyuridine as a possible radiosensitizer: electron-induced formation of uracil-C5-thiyl radical and its dimerization. Physical Chemistry Chemical Physics, 2015, 17, 16907-16916.	2.8	29
33	Effect of Hydrogen Bonding on Barrier-Free Proton Transfer in Anionic Complexes of Uracil with Weak Acids: (Uâ€¦HCN)â^versus (Uâ€¦H2S)â^'. Israel Journal of Chemistry, 2004, 44, 157-170.	2.3	28
34	Findings on the Electron-Attachment-Induced Abasic Site in a DNA Double Helix. Angewandte Chemie - International Edition, 2007, 46, 3479-3481.	13.8	27
35	Effect of proton transfer on the electronic coupling in DNA. Chemical Physics, 2006, 325, 567-574.	1.9	26
36	Valence Anion of Thymine in the DNA Ï€-Stack. Journal of the American Chemical Society, 2008, 130, 15683-15687.	13.7	26

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37	Theoretical studies on the prototropic tautomerism, structure, and features of acridine and 9-acridinamine free bases and their protonated forms. Journal of Organic Chemistry, 1992, 57, 3720-3725.	3.2	25
38	The Effect of Pyrimidine Bases on the Hole-Transfer Coupling in DNAâ€. Journal of Physical Chemistry B, 2002, 106, 7919-7926.	2.6	24
39	2,6-diaminopurine promotes repair of DNA lesions under prebiotic conditions. Nature Communications, 2021, 12, 3018.	12.8	24
40	Theoretical Studies on the Structure, Stability, Ability To Undergo Internal Transformations, and Tautomerization, as Well as Reactivity, of H2PPH2 and HPPH3 Molecules. Journal of the American Chemical Society, 1995, 117, 2638-2648.	13.7	23
41	Anion of the formic acid dimer as a model for intermolecular proton transfer induced by a Ï€* excess electron. Journal of Chemical Physics, 2005, 122, 204304.	3.0	23
42	Single Strand Break in DNA Coupled to the Oâ€”P Bond Cleavage. A Computational Study. Journal of Physical Chemistry B, 2011, 115, 1911-1917.	2.6	23
43	Electron-Induced Degradation of 8-Bromo-2â€²-deoxyadenosine 3â€²,5â€²-Diphosphate, a DNA Radiosensitizing Nucleotide. Journal of Physical Chemistry B, 2013, 117, 8681-8688.	2.6	23
44	The effect of two- and three-body interactions in ArnCO2 (n=1,2) on the asymmetric stretching CO2 coordinate: An ab initio study. Journal of Chemical Physics, 1997, 106, 10215-10221.	3.0	22
45	Electron stimulated desorption of anions from native and brominated single stranded oligonucleotide trimers. Journal of Chemical Physics, 2012, 136, 075101.	3.0	22
46	5-Selenocyanatouracil: A Potential Hypoxic Radiosensitizer. Electron Attachment Induced Formation of Selenium Centered Radical. Journal of Physical Chemistry B, 2017, 121, 6139-6147.	2.6	22
47	Electron-Induced Dissociation of the Potential Radiosensitizer 5-Selenocyanato-2â€²-deoxyuridine. Journal of Physical Chemistry B, 2019, 123, 1274-1282.	2.6	22
48	Splitting of Cyclobutane-Type Uracil Dimer Cation Radicals. Hartreeâ^'Fock, MP2, and Density Functional Studies. Journal of Physical Chemistry A, 1998, 102, 7168-7175.	2.5	21
49	Effect of Proton Transfer on the Anionic and Cationic Pathways of Pyrimidine Photodimer Cleavage. A Computational Study. Journal of Physical Chemistry A, 1999, 103, 3569-3574.	2.5	21
50	Barrier-free proton transfer in the valence anion of 2â€²-deoxyadenosine-5â€²-monophosphate. II. A computational study. Journal of Chemical Physics, 2008, 128, 044315.	3.0	21
51	Visibleâ€Light Photocatalytic Activity of Ionic Liquid TiO₂ Spheres: Effect of the Ionic Liquid's Anion Structure. ChemCatChem, 2017, 9, 4377-4388.	3.7	21
52	Origins and modeling of many-body exchange effects in van der Waals clusters. Journal of Chemical Physics, 1997, 106, 3301-3310.	3.0	20
53	Intermolecular proton transfer induced by excess electron attachment to adenine(formic acid)n (n=2,) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	20
54	Electrophilic 5â€Substituted Uracils as Potential Radiosensitizers: A Density Functional Theory Study. ChemPhysChem, 2016, 17, 2572-2578.	2.1	20

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55	TG-FTIR, DSC, and Quantum-Chemical Studies on the Thermal Decomposition of Quaternary Ethylammonium Halides. Journal of Physical Chemistry A, 2006, 110, 5066-5074.	2.5	19
56	Benign Decay vs. Photolysis in the Photophysics and Photochemistry of 5-Bromouracil. A Computational Study. Journal of Physical Chemistry A, 2009, 113, 5489-5495.	2.5	19
57	Theoretical studies on structure, thermochemistry, vibrational spectroscopy, and other features of ZrX2â^'6(X=F,Cl,Br,I): Coulombic energy in inorganic and organic hexahalogenozirconates. Journal of Chemical Physics, 1994, 100, 5810-5820.	3.0	18
58	Is 9-acridinamine anion a dispersion-bound anion?. Journal of Chemical Physics, 2001, 115, 11193-11199.	3.0	18
59	Electron induced single strand break and cyclization: a DFT study on the radiosensitization mechanism of the nucleotide of 8-bromoguanine. Physical Chemistry Chemical Physics, 2014, 16, 6568-6574.	2.8	17
60	Photoinduced Single Strand Breaks and Intrastrand Cross-Links in an Oligonucleotide Labeled with 5-Bromouracil. Journal of Physical Chemistry B, 2014, 118, 5009-5016.	2.6	17
61	5-Selenocyanato and 5-trifluoromethanesulfonyl derivatives of 2â€²-deoxyuridine: synthesis, radiation and computational chemistry as well as cytotoxicity. RSC Advances, 2018, 8, 21378-21388.	3.6	16
62	Stable Valence Anions of Nucleic Acid Bases and DNA Strand Breaks Induced by Low Energy Electrons. Challenges and Advances in Computational Chemistry and Physics, 2008, , 619-667.	0.6	15
63	An ESR and DFT study of hydration of the 2â€²-deoxyuridine-5-yl radical: a possible hydroxyl radical intermediate. Chemical Communications, 2014, 50, 14605-14608.	4.1	15
64	Anab initiostudy of (H3Bâ†NH3)â^'â€"a dipole-bound anion supported by the dative charge-transfer bond in the neutral host. Journal of Chemical Physics, 2000, 113, 8961-8968.	3.0	14
65	Structure, Properties, Thermodynamics, and Isomerization Ability of 9-Acridinones. Journal of Physical Chemistry A, 2002, 106, 3957-3963.	2.5	14
66	Electron-induced single strand break in the nucleotide of 5- and 6-bromouridine. A DFT study. Chemical Physics Letters, 2014, 612, 289-294.	2.6	14
67	Design, synthesis and biological evaluation of betulin-3-yl 2-amino-2-deoxy-Î²-d-glycopyranosides. Bioorganic Chemistry, 2020, 96, 103568.	4.1	14
68	Theoretical Studies on the Structure, Thermochemistry, Vibrational Spectroscopy, and Other Features of HfX62- (X = F, Cl, Br, I). Electrostatic Energy in Hexahalogenohafnates. Inorganic Chemistry, 1994, 33, 6187-6193.	4.0	13
69	UV-Induced Strand Breaks in Double-Stranded DNA Labeled with 5-Bromouracil: Frank or Secondary?. Journal of Physical Chemistry Letters, 2013, 4, 4014-4018.	4.6	13
70	5-Bromo-2â€²-deoxycytidineâ€"a potential DNA photosensitizer. Organic and Biomolecular Chemistry, 2016, 14, 9312-9321.	2.8	13
71	5-Iodo-4-thio-2â€²-Deoxyuridine as a Sensitizer of X-ray Induced Cancer Cell Killing. International Journal of Molecular Sciences, 2019, 20, 1308.	4.1	13
72	Uracil-5-yl O-Sulfamate: An Illusive Radiosensitizer. Pitfalls in Modeling the Radiosensitizing Derivatives of Nucleobases. Journal of Physical Chemistry B, 2020, 124, 5600-5613.	2.6	13

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73	NMR and DFT investigations of the substituent and solvent effect on amino-imino tautomerism in acridin-9-amines substituted at the exocyclic nitrogen atom. Journal of Physical Organic Chemistry, 2005, 18, 870-879.	1.9	12
74	PCR synthesis of double stranded DNA labeled with 5-bromouridine. A step towards finding a bromonucleoside for clinical trials. Journal of Pharmaceutical and Biomedical Analysis, 2011, 56, 671-677.	2.8	12
75	Stability of the valence anion of cytosine is governed by nucleobases sequence in the double stranded DNA Ï€-stack: A computational study. Journal of Chemical Physics, 2009, 131, 085103.	3.0	11
76	The radiosensitivity of 5- and 6-bromocytidine derivatives â€“ electron induced DNA degradation. Physical Chemistry Chemical Physics, 2014, 16, 19424.	2.8	11
77	Radiation damage to single stranded oligonucleotide trimers labelled with 5-iodopyrimidines. Organic and Biomolecular Chemistry, 2016, 14, 9331-9337.	2.8	11
78	The Transformation Mechanism of 3,4,6-Tri-O-acetyl-1,5-anhydro-2-deoxy-d-arabino-hex-1-enitol in Water. Journal of Organic Chemistry, 1996, 61, 2988-2994.	3.2	10
79	Theoretical Studies on the Effect of the Medium on Tautomeric Phenomena in Neutral and Protonated Acridin-9-amine. Mechanism of Tautomerization in Neutral Entities. Australian Journal of Chemistry, 1997, 50, 97.	0.9	10
80	Molecular features of thymidine analogues governing the activity of human thymidine kinase. Structural Chemistry, 2018, 29, 1367-1374.	2.0	10
81	Cytotoxicity of doxorubicin conjugated with C60 fullerene. Structural and in vitro studies. Structural Chemistry, 2019, 30, 2327-2338.	2.0	10
82	Why Does the Type of Halogen Atom Matter for the Radiosensitizing Properties of 5-Halogen Substituted 4-Thio-2â€²-Deoxyuridines?. Molecules, 2019, 24, 2819.	3.8	10
83	Thermal behaviour and thermochemistry of hexachlorozirconates of mononitrogen aromatic bases. Thermochimica Acta, 1993, 230, 269-292.	2.7	9
84	Valence anions of N-acetylproline in the gas phase: Computational and anion photoelectron spectroscopic studies. Journal of Chemical Physics, 2011, 135, 114301.	3.0	9
85	Photoelectron spectroscopic studies of 5-halouracil anions. Journal of Chemical Physics, 2011, 134, 015101.	3.0	9
86	Presolvated Low Energy Electron Attachment to Peptide Methyl Esters in Aqueous Solution: Câ€“O Bond Cleavage at 77 K. Journal of Physical Chemistry B, 2013, 117, 2872-2877.	2.6	9
87	Photoinduced electron transfer in 5-bromouracil labeled DNA. A contrathermodynamic mechanism revisited by electron transfer theories. Physical Chemistry Chemical Physics, 2019, 21, 4387-4393.	2.8	9
88	Modifications at the C(5) position of pyrimidine nucleosides. Russian Chemical Reviews, 2020, 89, 281-310.	6.5	9
89	Prototropic tautomerism in N,N-dimethyl-Nâ€²-(1-nitro-9-acridyl)propane-1,3-diamine and its nitro isomers. Application of MNDO and PPP methods for the examination of structure and electronic absorption spectra. Journal of the Chemical Society Perkin Transactions II, 1990, , 1501-1508.	0.9	8
90	Theoretical Studies on the Geometry, Thermochemistry, Vibrational Spectroscopy, and Charge Distribution in TiX62- (X = F, Cl, Br, I). Coulombic Energy in hexahalogenotitanate Lattices. The Journal of Physical Chemistry, 1994, 98, 6280-6286.	2.9	8

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91	Can an excess electron localize on a purine moiety in the adenine-thymine Watson-Crick base pair? A computational study. International Journal of Quantum Chemistry, 2007, 107, 2224-2232.	2.0	8
92	The Anionic (9-Methyladenine)â˜(1-Methylthymine) Base Pair Solvated by Formic Acid. A Computational and Photoelectron Spectroscopy Study. Journal of Physical Chemistry B, 2010, 114, 11353-11362.	2.6	8
93	Local Excitation of the 5-Bromouracil Chromophore in DNA. Computational and UV Spectroscopic Studies. Journal of Physical Chemistry B, 2011, 115, 4532-4537.	2.6	8
94	Electron-Induced Decomposition of Uracil-5-yl O-(N,N-dimethylsulfamate): Role of Methylation in Molecular Stability. International Journal of Molecular Sciences, 2021, 22, 2344.	4.1	8
95	Development of Sulfamoylated 4-(1-Phenyl-1H-1,2,3-triazol-4-yl)phenol Derivatives as Potent Steroid Sulfatase Inhibitors for Efficient Treatment of Breast Cancer. Journal of Medicinal Chemistry, 2022, 65, 5044-5056.	6.4	8
96	Crystal Structure of 9(10-Methyl)- Acridinimine Hydriodide. Lattice Energetics of this Compound and Halide Salts of Nitrogen Organic Bases. Molecular Crystals and Liquid Crystals, 1996, 276, 91-104.	0.3	7
97	Infrared and Raman spectroscopy of 9-acridinones. Vibrational Spectroscopy, 2001, 27, 139-152.	2.2	7
98	Dipole-bound and dispersion-bound anions supported by the asymmetric tautomers of aminophosphine: H3NPH and HNPH3. Chemical Physics, 2002, 279, 101-110.	1.9	7
99	Barrier-free proton transfer induced by electron attachment to the complexes between 1â€methylcytosine and formic acid. Molecular Physics, 2010, 108, 2621-2631.	1.7	7
100	The Product of Matrix Metalloproteinase Cleavage of Doxorubicin Conjugate for Anticancer Drug Delivery: Calorimetric, Spectroscopic, and Molecular Dynamics Studies on Peptideâ€“Doxorubicin Binding to DNA. International Journal of Molecular Sciences, 2020, 21, 6923.	4.1	7
101	Radicals Formed inN-Acetylproline by Electron Attachment: Electron Spin Resonance Spectroscopy and Computational Studies. Journal of Physical Chemistry B, 2011, 115, 14846-14851.	2.6	6
102	Dominant Pathways of Adenosyl Radical-Induced DNA Damage Revealed by QM/MM Metadynamics. Journal of Chemical Theory and Computation, 2017, 13, 6415-6423.	5.3	6
103	Theoretical and Experimental Studies on the Visible Light Activity of TiO2 Modified with Halide-Based Ionic Liquids. Catalysts, 2020, 10, 371.	3.5	6
104	Influence of Hypoxia on Radiosensitization of Cancer Cells by 5-Bromo-2â€²-deoxyuridine. International Journal of Molecular Sciences, 2022, 23, 1429.	4.1	6
105	Thermochemistry, lattice energetics and stability of hexahalogenohafnates. Journal of Alloys and Compounds, 1994, 210, 63-70.	5.5	5
106	X-Ray, Quantum Mechanics and Density Functional Methods in the Examination of Structure and Tautomerism of N-Methyl-Substituted Acridin-9-amine Derivatives. Australian Journal of Chemistry, 1998, 51, 643.	0.9	5
107	Theoretical studies on interactions between low energy electrons and proteinâ€“DNA fragments: valence anions of AT-amino acids side chain complexes. Physical Chemistry Chemical Physics, 2011, 13, 19499.	2.8	5
108	Photoelectron spectroscopic and density functional theoretical studies of the 2â€²-deoxycytidine homodimer radical anion. Journal of Chemical Physics, 2013, 139, 075101.	3.0	5

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109	5-(N-Trifluoromethylcarboxy)aminouracil as a Potential DNA Radiosensitizer and Its Radiochemical Conversion into N-Uracil-5-yloxamic Acid. International Journal of Molecular Sciences, 2020, 21, 6352.	4.1	5
110	Photoelectron Spectroscopy and Theoretical Investigations of Gaseous Doubly Deprotonated 2â€²-Deoxynucleoside 5â€²-Monophosphate Dianions. Journal of Physical Chemistry Letters, 2021, 12, 9463-9469.	4.6	5
111	Low-Energy Electron Induced Reactions in Metronidazole at Different Solvation Conditions. Pharmaceuticals, 2022, 15, 701.	3.8	5
112	Thermal features and thermochemistry of hexachlorozirconates of aliphatic and aromatic mono-aminesâ€"stability of hexahalogenozirconates. Journal of Alloys and Compounds, 1995, 224, 1-13.	5.5	4
113	IRâ€"Raman, NMR and density functional methods in the examination of tautomerism and features of N-methyl substituted 9-acridinamine derivatives. Journal of Molecular Structure, 1999, 476, 45-55.	3.6	4
114	A cyclic intermediate of the splitting reaction of cyclobutane-type pyrimidine dimer cation radicals. A computational finding as challenge for experimental techniques. Computational and Theoretical Chemistry, 1999, 488, 163-168.	1.5	4
115	Energetics of the splitting of pyrimidine photodimers induced by electron transfer to rhodium(III) complexes. A quantum chemical study. International Journal of Quantum Chemistry, 2000, 77, 128-138.	2.0	4
116	Photoelectron spectroscopy and density functional theory studies on the uridine homodimer radical anions. Journal of Chemical Physics, 2012, 137, 205101.	3.0	4
117	Artificial Plasmid Labeled with 5â€Bromoâ€2â€²â€deoxyuridine: A Universal Molecular System for Strand Break Detection. ChemBioChem, 2014, 15, 1409-1412.	2.6	4
118	DHPLC and MS studies of a photoinduced intrastrand cross-link in DNA labeled with 5-bromo-2â€²-deoxyuridine. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 86-92.	3.8	4
119	Excess Electron Attachment to the Nucleoside Pair 2â€²-Deoxyadenosine (dA)â€"2â€²-Deoxythymidine (dT). Journal of Physical Chemistry B, 2016, 120, 4955-4962.	2.6	4
120	Quantitative assay of photoinduced DNA strand breaks by real-time PCR. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 480-484.	2.8	4
121	Chemicallyâ€"enzymatic synthesis of photosensitive DNA. Journal of Photochemistry and Photobiology B: Biology, 2017, 167, 228-235.	3.8	4
122	Guanosine Dianions Hydrated by One to Four Water Molecules. Journal of Physical Chemistry Letters, 2022, , 3230-3236.	4.6	4
123	Inactive-to-Active Transition of Human Thymidine Kinase 1 Revealed by Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2022, 62, 142-149.	5.4	4
124	Radiosensitization of PC3 Prostate Cancer Cells by 5-Thiocyanato-2â€²-deoxyuridine. Cancers, 2022, 14, 2035.	3.7	4
125	Thermal properties, crystal lattice energy, mechanism and energetics of the thermal decomposition of hydrochlorides of 2-amino acid esters. Thermochimica Acta, 1990, 171, 253-277.	2.7	3
126	CGC, MS and theoretical studies on the transformation mechanism of 3,4-di-O-acetyl-1,5-anhydro-2-deoxy-D-threo-pent-1-enitol in aqueous solutions. Journal of the Chemical Society Perkin Transactions II, 1995, , 569-575.	0.9	3

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127	Enzymatic synthesis of long double-stranded DNA labeled with haloderivatives of nucleobases in a precisely pre-determined sequence. BMC Biochemistry, 2011, 12, 47.	4.4	3
128	Photoelectron Spectroscopy and Computational Modeling of Thymidine Homodimer Anions. Journal of Physical Chemistry B, 2012, 116, 13975-13981.	2.6	3
129	UV-induced electron transfer between triethylamine and 5-bromo-2â€²-deoxyuridine. A puzzle concerning the photochemical debromination of labeled DNA. Journal of Pharmaceutical and Biomedical Analysis, 2017, 142, 262-269.	2.8	3
130	DNA Damage Radiosensitizers Geared Towards Hydrated Electrons. , 2022, , 125-169.		3
131	Absorption and luminescence spectroscopic analysis of tautomeric forms of protonatedN,N-dimethyl-N?-(1-nitro-9-acridinyl)-1,3-propanediamine (nitracrine) and its nitro isomers in poly(vinyl alcohol) films. Journal of Fluorescence, 1991, 1, 57-68.	2.5	2
132	Unexpected Photoproduct Generated via the Acetone-Sensitized Photolysis of 5-Bromo-2â€²-deoxyuridine in a Water/Isopropanol Solution: Experimental and Computational Studies. Journal of Physical Chemistry B, 2010, 114, 16902-16907.	2.6	2
133	Valence Anions of DNA-Related Systems in the Gas Phase: Computational and Anion Photoelectron Spectroscopy Studies. , 2014, , 323-392.		2
134	Reactivity Pattern of Bromonucleosides Induced by 2-Hydroxypropyl Radicals: Photochemical, Radiation Chemical, and Computational Studies. Journal of Physical Chemistry B, 2015, 119, 6545-6554.	2.6	2
135	The Sequence Dependence of Photoinduced Single Strand Break in 5-Bromo-2â€²-deoxyuridine Labeled DNA Supports That Electron Transfer Is Responsible for the Damage. Journal of Physical Chemistry B, 2017, 121, 9169-9174.	2.6	2
136	Studies on nitracrine and its nitro isomers devoted to tautomeric phenomena, structural and physicochemical features, as well as surrounding electrostatic potential. Canadian Journal of Chemistry, 1993, 71, 1106-1122.	1.1	1
137	Consequences of Electron Attachment to Modified Nucleosides Incorporated into DNA. , 2015, , 1-22.		1
138	Theoretical Approach in Explanation of Energy Donor Properties of 1,4-Dioxane and 1,4-Dioxane-Water Complexes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1988, 43, 621-626.	1.5	0
139	Consequences of Proton Transfer in Guanidine. ChemInform, 2003, 34, no.	0.0	0
140	Benign and Degrading Excited-State Processes of DNA Nucleobases and their Derivatives. AIP Conference Proceedings, 2007, , .	0.4	0
141	Consequences of Electron Attachment to Modified Nucleosides Incorporated into DNA. , 2017, , 1895-1916.		0
142	Why Does the Type of Halogen Atom Matter for Radiosensitizing Properties of 5-Substituted 4-Thio-2â€²-Deoxyuridines?. Proceedings (mdpi), 2019, 22, .	0.2	0
143	Electrophilic Properties of 2â€²-DeoxyadenosineÂ·Â·Â·Thymine Dimer: Photoelectron Spectroscopy and DFT Studies. Journal of Physical Chemistry A, 2021, 125, 6591-6599.	2.5	0
144	Preliminary Observations on the Dependence of Potential Energy Surfaces on Intramolecular Degrees of Freedom. , 2000, , 73-82.		0