

David M Close

List of Publications by Year in descending order

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25
papers

648
citations

687363

13
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

586
citing authors

#	ARTICLE	IF	CITATIONS
1	One-electron oxidation of ds(5â€²-GGG-3â€²) and ds(5â€²-G(8OG)G-3â€²) and the nature of hole distribution: a density functional theory (DFT) study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5078-5089.	2.8	15
2	Comprehensive model for X-ray-induced damage in protein crystallography. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 945-957.	2.4	5
3	Calculation of Standard Reduction Potentials of Amino Acid Radicals and the Effects of Water and Incorporation into Peptides. <i>Journal of Physical Chemistry A</i> , 2018, 122, 439-445.	2.5	24
4	Calculations of the Energetics of Oxidation of Aqueous Nucleosides and the Effects of Prototropic Equilibria. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4043-4048.	2.5	9
5	DNA Damage by the Direct Effect of Ionizing Radiation: Products Produced by Two Sequential One-Electron Oxidations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12608-12615.	2.5	18
6	Calculated pK_a 's of the DNA Base Radical Ions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 473-480.	2.5	27
7	William A. Bernhard (1942â€“2012). <i>Radiation Research</i> , 2012, 178, 101-103.	1.5	2
8	Calculated Vertical Ionization Energies of the Common \pm -Amino Acids in the Gas Phase and in Solution. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2900-2912.	2.5	67
9	One-Electron Oxidation of Individual DNA Bases and DNA Base Stacks. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1860-1867.	2.5	13
10	Ionization Energy Thresholds of Microhydrated Adenine and Its Tautomers. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12702-12706.	2.5	20
11	One-Electron Oxidation of 2â€²-Deoxyadenosine-5â€²-phosphate: Comparisons of Theoretical Calculations with Experimental Values. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8411-8417.	2.5	7
12	Ionization Energies of the Nucleotides. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11207-11212.	2.5	35
13	Influence of Microhydration on the Ionization Energy Thresholds of Thymine: Comparisons of Theoretical Calculations with Experimental Values. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7485-7490.	2.5	32
14	Alkyl radical adducts of aromatic N-oxides as hydrogen-abstracting agents: The reactivity of phenazine-N,Nâ€²-dioxide-methyl radical adduct. <i>Research on Chemical Intermediates</i> , 2006, 32, 625-635.	2.7	2
15	Electron Transfer in Amino Acid-Nucleic Acid Base Complexes: EPR, ENDOR, and DFT Study of X-Irradiated N-Formylglycine-Cytosine Complex Crystals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8653-8662.	2.5	10
16	The Influence of Microhydration on the Ionization Energy Thresholds of Uracil and Thymine. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9279-9283.	2.5	34
17	Calculation of the Ionization Potentials of the DNA Bases in Aqueous Medium. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10376-10379.	2.5	107
18	Ab Initio Ionization Energy Thresholds of DNA and RNA Bases in Gas Phase and in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6373-6377.	2.5	119

#	ARTICLE	IF	CITATIONS
19	Model Calculations of Radiation-Induced Damage in Thymine Derivatives. Structural Chemistry, 2003, 14, 451-454.	2.0	8
20	Oxidative Damage to Cytosine: Implication for the Study of Radiation-Induced Damage to DNA. Journal of Physical Chemistry B, 2003, 107, 864-867.	2.6	48
21	Model Calculations of Radiation Induced Damage in DNA Constituents Using Density Functional Theory. Computational Chemistry - Reviews of Current Trends, 2003, , 209-247.	0.4	1
22	Model Calculations of Radiation-Induced Damage in 1-Methyluracil:9-Ethyladenine. Structural Chemistry, 2002, 13, 203-209.	2.0	4
23	EPR and ENDOR Studies of X-Irradiated Single Crystals of Deoxycytidine 5'-Phosphate Monohydrate at 10 and 77 K. Journal of Physical Chemistry A, 1998, 102, 6737-6744.	2.5	22
24	Radiation chemistry of purines in the solid state: ESR and ENDOR studies of γ -irradiated xanthosine dihydrate single crystals. Journal of Chemical Physics, 1983, 79, 3240-3250.	3.0	16
25	Low-temperature thermoluminescent behavior of $^2\text{dCMP}$ single crystals. Journal of Chemical Physics, 1982, 76, 2174-2178.	3.0	3