

James T Stivers

List of Publications by Year in descending order

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54
papers

5,180
citations

134610

34
h-index

206121

51
g-index

54
all docs

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docs citations

54
times ranked

6260
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Human Uracil DNA Glycosylase Sensitizes a Large Fraction of Colorectal Cancer Cells to 5-Fluorodeoxyuridine and Raltitrexed but Not Fluorouracil. <i>Molecular Pharmacology</i> , 2021, 99, 412-425.	1.0	4
2	Facilitated Diffusion Mechanisms in DNA Base Excision Repair and Transcriptional Activation. <i>Chemical Reviews</i> , 2018, 118, 11298-11323.	23.0	50
3	Investigation of N-Terminal Phospho-Regulation of Uracil DNA Glycosylase Using Protein Semisynthesis. <i>Biophysical Journal</i> , 2017, 113, 393-401.	0.2	30
4	Comparative Effects of Ions, Molecular Crowding, and Bulk DNA on the Damage Search Mechanisms of hOGG1 and hUNG. <i>Biochemistry</i> , 2016, 55, 5230-5242.	1.2	19
5	Molecular crowding enhances facilitated diffusion of two human DNA glycosylases. <i>Nucleic Acids Research</i> , 2015, 43, 4087-4097.	6.5	44
6	Electrostatic Properties of Complexes along a DNA Glycosylase Damage Search Pathway. <i>Biochemistry</i> , 2014, 53, 7680-7692.	1.2	23
7	DNA Translocation by Human Uracil DNA Glycosylase: Role of DNA Phosphate Charge. <i>Biochemistry</i> , 2013, 52, 2526-2535.	1.2	33
8	DNA Translocation by Human Uracil DNA Glycosylase: The Case of Single-Stranded DNA and Clustered Uracils. <i>Biochemistry</i> , 2013, 52, 2536-2544.	1.2	20
9	Enzymatic Excision of Uracil Residues in Nucleosomes Depends on the Local DNA Structure and Dynamics. <i>Biochemistry</i> , 2012, 51, 6028-6038.	1.2	50
10	Timing facilitated site transfer of an enzyme on DNA. <i>Nature Chemical Biology</i> , 2012, 8, 205-210.	3.9	73
11	Cosolute Paramagnetic Relaxation Enhancements Detect Transient Conformations of Human Uracil DNA Glycosylase (hUNG). <i>Biochemistry</i> , 2011, 50, 10724-10731.	1.2	13
12	Unique Dynamic Properties of DNA Duplexes Containing Interstrand Cross-Links. <i>Biochemistry</i> , 2011, 50, 882-890.	1.2	3
13	Dynamics of Uracil and 5-Fluorouracil in DNA. <i>Biochemistry</i> , 2011, 50, 612-617.	1.2	53
14	Dynamics in Uracil Base Excision Repair. <i>ACS Symposium Series</i> , 2010, , 47-58.	0.5	0
15	Detection of Damaged DNA Bases by DNA Glycosylase Enzymes. <i>Biochemistry</i> , 2010, 49, 4957-4967.	1.2	160
16	Nontarget DNA binding shapes the dynamic landscape for enzymatic recognition of DNA damage. <i>Nucleic Acids Research</i> , 2009, 37, 3493-3500.	6.5	47
17	Competitive Inhibition of Uracil DNA Glycosylase by a Modified Nucleotide Whose Triphosphate is a Substrate for DNA Polymerase. <i>Journal of the American Chemical Society</i> , 2009, 131, 1344-1345.	6.6	13
18	Extrahelical Damaged Base Recognition by DNA Glycosylase Enzymes. <i>Chemistry - A European Journal</i> , 2008, 14, 786-793.	1.7	65

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19	Uracil DNA Glycosylase: Revisiting Substrate-Assisted Catalysis by DNA Phosphate Anions. <i>Biochemistry</i> , 2008, 47, 8614-8622.	1.2	26
20	Uracil DNA glycosylase uses DNA hopping and short-range sliding to trap extrahelical uracils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10791-10796.	3.3	128
21	Enzymatic capture of an extrahelical thymine in the search for uracil in DNA. <i>Nature</i> , 2007, 449, 433-437.	13.7	184
22	The Catalytic Power of Uracil DNA Glycosylase in the Opening of Thymine Base Pairs. <i>Journal of the American Chemical Society</i> , 2006, 128, 13034-13035.	6.6	38
23	Probing Enzyme Phosphoester Interactions by Combining Mutagenesis and Chemical Modification of Phosphate Ester Oxygens. <i>Chemical Reviews</i> , 2006, 106, 3443-3467.	23.0	33
24	Linking uracil base excision repair and 5-fluorouracil toxicity in yeast. <i>Nucleic Acids Research</i> , 2006, 34, 140-151.	6.5	1,877
25	Mimicking damaged DNA with a small molecule inhibitor of human UNG2. <i>Nucleic Acids Research</i> , 2006, 34, 5872-5879.	6.5	27
26	The Origins of High-Affinity Enzyme Binding to an Extrahelical DNA Base. <i>Biochemistry</i> , 2005, 44, 5949-5959.	1.2	56
27	Dynamic opening of DNA during the enzymatic search for a damaged base. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1230-1236.	3.6	118
28	The merits of bipartite transition-state mimics for inhibition of uracil DNA glycosylase. <i>Bioorganic Chemistry</i> , 2004, 32, 244-262.	2.0	12
29	Linear Free Energy Correlations for Enzymatic Base Flipping: How Do Damaged Base Pairs Facilitate Specific Recognition?. <i>Biochemistry</i> , 2004, 43, 4188-4195.	1.2	38
30	Recognition of an Unnatural Difluorophenyl Nucleotide by Uracil DNA Glycosylase. <i>Biochemistry</i> , 2004, 43, 15429-15438.	1.2	29
31	DNA Glycosylases: Mechanisms. , 2004, , 614-617.		0
32	Site-Specific DNA Damage Recognition by Enzyme-Induced Base Flipping. <i>Progress in Molecular Biology and Translational Science</i> , 2004, 77, 37-65.	1.9	62
33	A Mechanistic Perspective on the Chemistry of DNA Repair Glycosylases. <i>ChemInform</i> , 2003, 34, no.	0.1	0
34	A Mechanistic Perspective on the Chemistry of DNA Repair Glycosylases. <i>Chemical Reviews</i> , 2003, 103, 2729-2760.	23.0	416
35	Powering DNA Repair through Substrate Electrostatic Interactions. <i>Biochemistry</i> , 2003, 42, 1922-1929.	1.2	52
36	Electrostatic Guidance of Glycosyl Cation Migration along the Reaction Coordinate of Uracil DNA Glycosylase. <i>Biochemistry</i> , 2003, 42, 12455-12460.	1.2	62

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37	Solution Structure and Base Perturbation Studies Reveal a Novel Mode of Alkylated Base Recognition by 3-Methyladenine DNA Glycosylase I. <i>Journal of Biological Chemistry</i> , 2003, 278, 48012-48020.	1.6	33
38	A Novel Zinc Snap Motif Conveys Structural Stability to 3-Methyladenine DNA Glycosylase I. <i>Journal of Biological Chemistry</i> , 2003, 278, 19442-19446.	1.6	24
39	Probing the Limits of Electrostatic Catalysis by Uracil DNA Glycosylase Using Transition State Mimicry and Mutagenesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 15385-15392.	1.6	37
40	Inhibition of Uracil DNA Glycosylase by an Oxocarbenium Ion Mimic. <i>Biochemistry</i> , 2002, 41, 7116-7124.	1.2	34
41	Base-Flipping Mutations of Uracil DNA Glycosylase: Substrate Rescue Using a Pyrene Nucleotide Wedge. <i>Biochemistry</i> , 2002, 41, 11248-11254.	1.2	55
42	3-methyladenine DNA glycosylase I is an unexpected helix-hairpin-helix superfamily member. <i>Nature Structural Biology</i> , 2002, 9, 659-664.	9.7	49
43	Mutational Analysis of the Base-Flipping Mechanism of Uracil DNA Glycosylase. <i>Biochemistry</i> , 2002, 41, 11236-11247.	1.2	58
44	Reconstructing the Substrate for Uracil DNA Glycosylase: Tracking the Transmission of Binding Energy in Catalysis. <i>Biochemistry</i> , 2001, 40, 7710-7719.	1.2	32
45	Turning On Uracil-DNA Glycosylase Using a Pyrene Nucleotide Switch. <i>Journal of Biological Chemistry</i> , 2001, 276, 42347-42354.	1.6	57
46	Escherichia coli Uracil DNA Glycosylase: NMR Characterization of the Short Hydrogen Bond from His187 to Uracil O2. <i>Biochemistry</i> , 2000, 39, 11865-11875.	1.2	59
47	Stressing-Out DNA? The Contribution of Serine-Phosphodiester Interactions in Catalysis by Uracil DNA Glycosylase. <i>Biochemistry</i> , 2000, 39, 12585-12594.	1.2	60
48	Kinetic Isotope Effect Studies of the Reaction Catalyzed by Uracil DNA Glycosylase: Evidence for an Oxocarbenium Ion-Uracil Anion Intermediate. <i>Biochemistry</i> , 2000, 39, 14054-14064.	1.2	130
49	NMR Evidence for an Unusually Low N1 pKa for Uracil Bound to Uracil DNA Glycosylase: Implications for Catalysis. <i>Journal of the American Chemical Society</i> , 2000, 122, 1840-1841.	6.6	74
50	Crystal structure of Escherichia coli uracil DNA glycosylase and its complexes with uracil and glycerol: Structure and glycosylase mechanism revisited. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 35, 13-24.	1.5	107
51	Kinetic Mechanism of Damage Site Recognition and Uracil Flipping by Escherichia coli Uracil DNA Glycosylase. <i>Biochemistry</i> , 1999, 38, 952-963.	1.2	207
52	Heteronuclear NMR and Crystallographic Studies of Wild-Type and H187Q Escherichia coli Uracil DNA Glycosylase: Electrophilic Catalysis of Uracil Expulsion by a Neutral Histidine 187. <i>Biochemistry</i> , 1999, 38, 11876-11886.	1.2	74
53	Role of Electrophilic and General Base Catalysis in the Mechanism of Escherichia coli Uracil DNA Glycosylase. <i>Biochemistry</i> , 1999, 38, 11866-11875.	1.2	107
54	4-Oxalocrotonate Tautomerase: pH Dependence of Catalysis and pKa Values of Active Site Residues. <i>Biochemistry</i> , 1996, 35, 814-823.	1.2	125