

Andrew S Arvai

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

3,097
citations

394390

19
h-index

713444

21
g-index

22
all docs

22
docs citations

22
times ranked

3530
citing authors

#	ARTICLE	IF	CITATIONS
1	A nucleotide-flipping mechanism from the structure of human uracil-DNA glycosylase bound to DNA. <i>Nature</i> , 1996, 384, 87-92.	27.8	520
2	DNA Double-Strand Break Repair Pathway Choice Is Directed by Distinct MRE11 Nuclease Activities. <i>Molecular Cell</i> , 2014, 53, 7-18.	9.7	466
3	Crystal structure and mutational analysis of human uracil-DNA glycosylase: Structural basis for specificity and catalysis. <i>Cell</i> , 1995, 80, 869-878.	28.9	361
4	MutY catalytic core, mutant and bound adenine structures define specificity for DNA repair enzyme superfamily. <i>Nature Structural Biology</i> , 1998, 5, 1058-1064.	9.7	297
5	Crystal structure of human uracil-DNA glycosylase in complex with a protein inhibitor: Protein mimicry of DNA. <i>Cell</i> , 1995, 82, 701-708.	28.9	253
6	Structural and functional characterization of a conserved pair of bacterial cellulose-oxidizing lytic polysaccharide monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8446-8451.	7.1	241
7	Anchored plasticity opens doors for selective inhibitor design in nitric oxide synthase. <i>Nature Chemical Biology</i> , 2008, 4, 700-707.	8.0	205
8	Structure of <i>Haemophilus influenzae</i> Fe ³⁺ -binding protein reveals convergent evolution within a superfamily. <i>Nature Structural and Molecular Biology</i> , 1997, 4, 919-924.	8.2	183
9	Protein mimicry of DNA from crystal structures of the uracil-DNA glycosylase inhibitor protein and its complex with <i>Escherichia coli</i> uracil-DNA glycosylase 1. Edited by D. C. Rees. <i>Journal of Molecular Biology</i> , 1999, 287, 331-346.	4.2	120
10	Phosphate steering by Flap Endonuclease 1 promotes 5'-flap specificity and incision to prevent genome instability. <i>Nature Communications</i> , 2017, 8, 15855.	12.8	81
11	Ultrahigh Resolution and Full-length Pilin Structures with Insights for Filament Assembly, Pathogenic Functions, and Vaccine Potential. <i>Journal of Biological Chemistry</i> , 2011, 286, 44254-44265.	3.4	62
12	Reaction Intermediates in the Catalytic Mechanism of <i>Escherichia coli</i> MutY DNA Glycosylase. <i>Journal of Biological Chemistry</i> , 2004, 279, 46930-46939.	3.4	47
13	The nucleotide-dependent interaction of FlaH and FlaI is essential for assembly and function of the archaeal motor. <i>Molecular Microbiology</i> , 2016, 99, 674-685.	2.5	47
14	Self-Assembly of the Cephalopod Protein Reflectin. <i>Advanced Materials</i> , 2016, 28, 8405-8412.	21.0	41
15	Targeting SARS-CoV-2 Nsp3 macrodomain structure with insights from human poly(ADP-ribose) glycohydrolase (PARG) structures with inhibitors. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 171-186.	2.9	39
16	Human XPG nuclease structure, assembly, and activities with insights for neurodegeneration and cancer from pathogenic mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14127-14138.	7.1	37
17	Structures of Tetrahydrobiopterin Binding-Site Mutants of Inducible Nitric Oxide Synthase Oxygenase Dimer and Implicated Roles of Trp ⁴⁵⁷ . <i>Biochemistry</i> , 2001, 40, 12826-12832.	2.5	34
18	Fragment- and structure-based drug discovery for developing therapeutic agents targeting the DNA Damage Response. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 130-142.	2.9	21

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19	Targeting Allostery with Avatars to Design Inhibitors Assessed by Cell Activity: Dissecting MRE11 Endo- and Exonuclease Activities. <i>Methods in Enzymology</i> , 2018, 601, 205-241.	1.0	20
20	An effective human uracil-DNA glycosylase inhibitor targets the open pre-catalytic active site conformation. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 143-159.	2.9	14
21	Crystallization and preliminary crystallographic study of human CksHs1: A cell cycle regulatory protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 21, 70-73.	2.6	8
22	Bioinspired Films: Self-Assembly of the Cephalopod Protein Reflectin (<i>Adv. Mater.</i> 38/2016). <i>Advanced Materials</i> , 2016, 28, 8553-8553.	21.0	0