Hanna S Yuan

List of Publications by Citations

89 papers	3,041 citations	32 h-index	53 g-index
94 ext. papers	3,397 ext. citations	9.5 avg, IF	4.82 L-index

#	Paper	IF	Citations
89	Structural insights into TDP-43 in nucleic-acid binding and domain interactions. *Nucleic Acids Research*, **2009**, 37, 1799-808	20.1	212
88	Stabilization and enhancement of the antiapoptotic activity of mcl-1 by TCTP. *Molecular and Cellular Biology*, **2005**, 25, 3117-26	4.8	193
87	The crystal structure of the DNase domain of colicin E7 in complex with its inhibitor Im7 protein. *Structure*, **1999**, 7, 91-102	5.2	176
86	Structural basis of non-specific lipid binding in maize lipid-transfer protein complexes revealed by high-resolution X-ray crystallography. *Journal of Molecular Biology*, **2001**, 308, 263-78	6.5	145
85	The molecular structure of wild-type and a mutant Fis protein: relationship between mutational changes and recombinational enhancer function or DNA binding. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 9558-62	11.5	138
84	Mitochondrial endonuclease G mediates breakdown of paternal mitochondria upon fertilization. *Science*, **2016**, 353, 394-9	33.3	107
83	Full-length TDP-43 forms toxic amyloid oligomers that are present in frontotemporal lobar dementia-TDP patients. *Nature Communications*, **2014**, 5, 4824	17.4	107
82	The crystal structure of TDP-43 RRM1-DNA complex reveals the specific recognition for UG- and TG-rich nucleic acids. *Nucleic Acids Research*, **2014**, 42, 4712-22	20.1	87
81	DNA binding and cleavage by the periplasmic nuclease Vvn: a novel structure with a known active site. *EMBO Journal*, **2003**, 22, 4014-25	13	81
80	Structural and functional insights into human Tudor-SN, a key component linking RNA interference and editing. *Nucleic Acids Research*, **2008**, 36, 3579-89	20.1	76
79	Crystal structure of Escherichia coli PNPase: central channel residues are involved in processive RNA degradation. *Rna*, **2008**, 14, 2361-71	5.8	74
78	The truncated C-terminal RNA recognition motif of TDP-43 protein plays a key role in forming proteinaceous aggregates. *Journal of Biological Chemistry*, **2013**, 288, 9049-57	5.4	70
77	Structural studies of the pigeon cytosolic NADP(+)-dependent malic enzyme. *Protein Science*, **2002**, 11, 332-41	6.3	65
76	Structural and functional insight into sugar-nonspecific nucleases in host defense. *Current Opinion in Structural Biology*, **2005**, 15, 126-34	8.1	59
75	DNA binding and degradation by the HNH protein ColE7. *Structure*, **2004**, 12, 205-14	5.2	55
74	Stable carbocations. 273. [1.1.1.1]- and [2.2.1.1]Pagodane dications: frozen two-electron Woodward-Hoffmann transition-state models. *Journal of the American Chemical Society*, **1988**, 110, 7764-7772	16.4	53
73	Structures of the copper-containing Cu4MgPh6 and [Cu4LiPh6]- clusters: first example of a magnesium-containing transition-metal cluster compound. *Journal of the American Chemical Society* , **1985**, 107, 1682-1684	16.4	53

72	The crystal structure of the nuclease domain of colicin E7 suggests a mechanism for binding to double-stranded DNA by the H-N-H endonucleases. *Journal of Molecular Biology*, **2002**, 324, 227-36	6.5	52
71	Crystal structure of a natural circularly permuted jellyroll protein: 1,3-1,4-beta-D-glucanase from Fibrobacter succinogenes. *Journal of Molecular Biology*, **2003**, 330, 607-20	6.5	49
70	The crystal structure of the immunity protein of colicin E7 suggests a possible colicin-interacting surface. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 6437-42	11.5	48
69	Structural analysis of disease-related TDP-43 D169G mutation: linking enhanced stability and caspase cleavage efficiency to protein accumulation. *Scientific Reports*, **2016**, 6, 21581	4.9	47
68	The transactivation region of the fis protein that controls site-specific DNA inversion contains extended mobile beta-hairpin arms. *EMBO Journal*, **1997**, 16, 6860-73	13	47
67	The zinc ion in the HNH motif of the endonuclease domain of colicin E7 is not required for DNA binding but is essential for DNA hydrolysis. *Nucleic Acids Research*, **2002**, 30, 1670-8	20.1	47
66	Crystal structure of human polynucleotide phosphorylase: insights into its domain function in RNA binding and degradation. *Nucleic Acids Research*, **2012**, 40, 4146-57	20.1	46
65	Metal ions and phosphate binding in the H-N-H motif: crystal structures of the nuclease domain of ColE7/Im7 in complex with a phosphate ion and different divalent metal ions. *Protein Science*, **2002**, 11, 2947-57	6.3	45
64	An x-ray study of FeH(dmpe)2(BH4): a compound containing a singly-bridged BH4 ligand with a bent Fe?H?B linkage. *Inorganica Chimica Acta*, **1986**, 114, L27-L28	2.7	40
63	Multi-targeting of functional cysteines in multiple conserved SARS-CoV-2 domains by clinically safe Zn-ejectors. *Chemical Science*, **2020**, 11, 9904-9909	9.4	40
62	Identification of an essential cleavage site in ColE7 required for import and killing of cells. *Journal of Biological Chemistry*, **2005**, 280, 24663-8	5.4	37
61	Structural analysis of the transcriptional activation region on Fis: crystal structures of six Fis mutants with different activation properties. *Journal of Molecular Biology*, **2000**, 302, 1139-51	6.5	36
60	Crystal structural analysis and metal-dependent stability and activity studies of the ColE7 endonuclease domain in complex with DNA/Zn2+ or inhibitor/Ni2+. *Protein Science*, **2006**, 15, 269-80	6.3	35
59	The conserved asparagine in the HNH motif serves an important structural role in metal finger endonucleases. *Journal of Molecular Biology*, **2007**, 368, 812-21	6.5	34
58	Conversion of a beta-strand to an alpha-helix induced by a single-site mutation observed in the crystal structure of Fis mutant Pro26Ala. *Protein Science*, **1998**, 7, 1875-83	6.3	32
57	Structural basis for sequence-dependent DNA cleavage by nonspecific endonucleases. *Nucleic Acids Research*, **2007**, 35, 584-94	20.1	32
56	Stable carbocations. Part 267. Pagodane dication, a unique 2.pi.-aromatic cyclobutanoid system. *Journal of the American Chemical Society*, **1986**, 108, 836-838	16.4	29
55	Structural basis for RNA trimming by RNase T in stable RNA 3Qend maturation. *Nature Chemical Biology*, **2011**, 7, 236-43	11.7	28

54	Using an Old Drug to Target a New Drug Site: Application of Disulfiram to Target the Zn-Site in HCV NS5A Protein. *Journal of the American Chemical Society*, **2016**, 138, 3856-62	16.4	26
53	How an exonuclease decides where to stop in trimming of nucleic acids: crystal structures of RNase T-product complexes. *Nucleic Acids Research*, **2012**, 40, 8144-54	20.1	25
52	Categorizing host-dependent RNA viruses by principal component analysis of their codon usage preferences. *Journal of Computational Biology*, **2009**, 16, 1539-47	1.7	24
51	The critical roles of polyamines in regulating ColE7 production and restricting ColE7 uptake of the colicin-producing Escherichia coli. *Journal of Biological Chemistry*, **2006**, 281, 13083-13091	5.4	22
50	Structural insights into RNA unwinding and degradation by RNase R. *Nucleic Acids Research*, **2017**, 45, 12015-12024	20.1	20
49	Synergistic Inhibition of SARS-CoV-2 Replication Using Disulfiram/Ebselen and Remdesivir. *ACS Pharmacology and Translational Science*, **2021**, 4, 898-907	5.9	20
48	Crystal structure of CRN-4: implications for domain function in apoptotic DNA degradation. *Molecular and Cellular Biology*, **2009**, 29, 448-57	4.8	19
47	Structural insights into DNA repair by RNase T--an exonuclease processing 3Q end of structured DNA in repair pathways. *PLoS Biology*, **2014**, 12, e1001803	9.7	18
46	Directed mutagenesis of apecific active site residues on Fibrobacter succinogenes 1,3-1,4-beta -D-glucanase significantly affects catalysis and enzyme structural stability. *Journal of Biological Chemistry*, **2001**, 276, 17895-901	5.4	18
45	Mutagenesis of Trp(54) and Trp(203) residues on Fibrobacter succinogenes 1,3-1,4-beta-D-glucanase significantly affects catalytic activities of the enzyme. *Biochemistry*, **2002**, 41, 8759-66	3.2	18
44	RNA recognition motifs of disease-linked RNA-binding proteins contribute to amyloid formation. *Scientific Reports*, **2019**, 9, 6171	4.9	17
43	Oxidative Stress Impairs Cell Death by Repressing the Nuclease Activity of Mitochondrial Endonuclease G. *Cell Reports*, **2016**, 16, 279-287	10.6	17
42	Structure and function of TatD exonuclease in DNA repair. *Nucleic Acids Research*, **2014**, 42, 10776-85	20.1	17
41	The structure of Fis mutant Pro61Ala illustrates that the kink within the long alpha-helix is not due to the presence of the proline residue. *Journal of Biological Chemistry*, **1994**, 269, 28947-54	5.4	17
40	Structural Insights into a Unique Dimeric DEAD-Box Helicase CshA that Promotes RNA Decay. *Structure*, **2017**, 25, 469-481	5.2	16
39	Structural insights into CpG-specific DNA methylation by human DNA methyltransferase 3B. *Nucleic Acids Research*, **2020**, 48, 3949-3961	20.1	16
38	A novel role of ImmE7 in the autoregulatory expression of the ColE7 operon and identification of possible RNase active sites in the crystal structure of dimeric ImmE7. *EMBO Journal*, **1997**, 16, 1444-54	13	16
37	Crystallization and preliminary crystallographic analysis of the Escherichia coli tyrosine aminotransferase. *Acta Crystallographica Section D: Biological Crystallography*, **1999**, 55, 1474-7		16

36	Identification of labile Zn sites in drug-target proteins. *Journal of the American Chemical Society*, **2013**, 135, 14028-31	16.4	15
35	Crystal structure of endonuclease G in complex with DNA reveals how it nonspecifically degrades DNA as a homodimer. *Nucleic Acids Research*, **2016**, 44, 10480-10490	20.1	12
34	Redesign of high-affinity nonspecific nucleases with altered sequence preference. *Journal of the American Chemical Society*, **2009**, 131, 17345-53	16.4	12
33	Determination of the absolute configuration of (+)-neopentyl-1-d alcohol by neutron and x-ray diffraction analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 12872-6	11.5	12
32	Identification of Inhibitors for the DEDDh Family of Exonucleases and a Unique Inhibition Mechanism by Crystal Structure Analysis of CRN-4 Bound with 2-Morpholin-4-ylethanesulfonate (MES). *Journal of Medicinal Chemistry*, **2016**, 59, 8019-29	8.3	11
31	Structural insights into apoptotic DNA degradation by CED-3 protease suppressor-6 (CPS-6) from Caenorhabditis elegans. *Journal of Biological Chemistry*, **2012**, 287, 7110-20	5.4	11
30	High-resolution crystal structure of a truncated ColE7 translocation domain: implications for colicin transport across membranes. *Journal of Molecular Biology*, **2006**, 356, 22-31	6.5	11
29	A unique exonuclease ExoG cleaves between RNA and DNA in mitochondrial DNA replication. *Nucleic Acids Research*, **2019**, 47, 5405-5419	20.1	10
28	Crystal structure of dimeric human PNPase reveals why disease-linked mutants suffer from low RNA import and degradation activities. *Nucleic Acids Research*, **2018**, 46, 8630-8640	20.1	10
27	Dynamic Indoor Localization Based on Active RFID for Healthcare Applications: A Shape Constraint Approach **2009**,		10
26	Structural insights into nanoRNA degradation by human Rexo2. *Rna*, **2019**, 25, 737-746	5.8	9
25	Aromatic residues in RNase T stack with nucleobases to guide the sequence-specific recognition and cleavage of nucleic acids. *Protein Science*, **2015**, 24, 1934-41	6.3	9
24	Practicability Study on the Improvement of the Indoor Location Tracking Accuracy with Active RFID **2009**,		9
23	Involvement of colicin in the limited protection of the colicin producing cells against bacteriophage. *Biochemical and Biophysical Research Communications*, **2004**, 318, 81-7	3.4	9
22	Tudor staphylococcal nuclease is a structure-specific ribonuclease that degrades RNA at unstructured regions during microRNA decay. *Rna*, **2018**, 24, 739-748	5.8	8
21	Structural and biochemical characterization of CRN-5 and Rrp46: an exosome component participating in apoptotic DNA degradation. *Rna*, **2010**, 16, 1748-59	5.8	8
20	Accurate Location Tracking Based on Active RFID for Health and Safety Monitoring **2009**,		7
19	Hierarchical order of critical residues on the immunity-determining region of the Im7 protein which confer specific immunity to its cognate colicin. *Biochemical and Biophysical Research Communications*, **1999**, 264, 69-75	3.4	7

18	Expression, crystallization and preliminary X-ray diffraction studies of N-carbamyl-D-amino-acid amidohydrolase from Agrobacterium radiobacter. *Acta Crystallographica Section D: Biological Crystallography*, **1999**, 55, 694-5		6
17	Determination of the absolute configuration of (-)-(2R)-succinic-2-d acid by neutron diffraction study: unambiguous proof of the absolute stereochemistry of the NAD+/NADH interconversion. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 2889-93	11.5	6
16	Structural and catalytic roles of residues located in beta13 strand and the following beta-turn loop in Fibrobacter succinogenes 1,3-1,4-beta-D-glucanase. *Biochimica Et Biophysica Acta - General Subjects*, **2009**, 1790, 231-9	4	5
15	Structures, Mechanisms, and Functions of His-Me Finger Nucleases. *Trends in Biochemical Sciences*, **2020**, 45, 935-946	10.3	4
14	Characterization of the specific cleavage of ceiE7-mRNA of the bactericidal ColE7 operon. *Biochemical and Biophysical Research Communications*, **2002**, 299, 613-20	3.4	4
13	Quantitative phase determination for macromolecular crystals using stereoscopic multibeam imaging. *Acta Crystallographica Section A: Foundations and Advances*, **1999**, 55, 933-938		4
12	Recombination in the nonstructural gene region in type 2 dengue viruses. *Intervirology*, **2012**, 55, 225-30	2.5	3
11	Inhibition of IS2 transposition by factor for inversion stimulation. *FEMS Microbiology Letters*, **2007**, 275, 98-105	2.9	2
10	Crystallization and preliminary x-ray diffraction analysis of malic enzyme from pigeon liver. *Acta Crystallographica Section D: Biological Crystallography*, **1999**, 55, 1930-2		2
9	Crystallization and preliminary X-ray crystallographic analysis of ImmE7 protein of colicin E7. *Proteins: Structure, Function and Bioinformatics*, **1995**, 23, 588-90	4.2	2
8	Frontotemporal dementia-linked P112H mutation of TDP-43 induces protein structural change and impairs its RNA binding function. *Protein Science*, **2021**, 30, 350-365	6.3	2
7	Crystallization and preliminary X-ray diffraction analysis of the 1,3-1,4-beta-D-glucanase from Fibrobacter succinogenes. *Acta Crystallographica Section D: Biological Crystallography*, **2001**, 57, 1303-6		1
6	Binding Proteins | RNA-Binding Proteins in Bacterial and Mitochondrial RNA Decay **2021**, 517-526		1
5	Dimeric assembly of human Suv3 helicase promotes its RNA unwinding function in mitochondrial RNA degradosome for RNA decay.. *Protein Science*, **2022**, 31, e4312	6.3	1
4	Fis-protein induces rod-like DNA bending. *Chemical Physics Letters*, **2010**, 500, 318-322	2.5	
3	S2c2-4 Nonspecific nucleases in cell defense and cell death(S2-c2: "Structural biology reveals macromolecular interaction",Symposia,Abstract,Meeting Program of EABS & BSJ 2006). *Seibutsu Butsuri*, **2006**, 46, S128	0	
2	Structural insights into mitochondrial EndoG in response to oxidative stress. *FASEB Journal*, **2018**, 32, lb69	0.9	
1	Structural insights into RNase T in RNA maturation and DNA repair. *FASEB Journal*, **2013**, 27, 988.1	0.9	