Lisa Craig

List of Publications by Citations

37 papers	4,401 citations	23 h-index	41 g-index
41 ext. papers	4,907 ext. citations	12.9 avg, IF	5.24 L-index

#	Paper	IF	Citations
37	Structural biology of Rad50 ATPase: ATP-driven conformational control in DNA double-strand break repair and the ABC-ATPase superfamily. *Cell*, **2000**, 101, 789-800	56.2	820
36	Type IV pilus structure and bacterial pathogenicity. *Nature Reviews Microbiology*, **2004**, 2, 363-78	22.2	571
35	The Rad50 zinc-hook is a structure joining Mre11 complexes in DNA recombination and repair. *Nature*, **2002**, 418, 562-6	50.4	425
34	Structural biochemistry and interaction architecture of the DNA double-strand break repair Mre11 nuclease and Rad50-ATPase. *Cell*, **2001**, 105, 473-85	56.2	397
33	Type IV pilus structure by cryo-electron microscopy and crystallography: implications for pilus assembly and functions. *Molecular Cell*, **2006**, 23, 651-62	17.6	317
32	Type IV pilin structure and assembly: X-ray and EM analyses of Vibrio cholerae toxin-coregulated pilus and Pseudomonas aeruginosa PAK pilin. *Molecular Cell*, **2003**, 11, 1139-50	17.6	232
31	Type IV pili: paradoxes in form and function. *Current Opinion in Structural Biology*, **2008**, 18, 267-77	8.1	215
30	Full-length archaeal Rad51 structure and mutants: mechanisms for RAD51 assembly and control by BRCA2. *EMBO Journal*, **2003**, 22, 4566-76	13	211
29	ALS mutants of human superoxide dismutase form fibrous aggregates via framework destabilization. *Journal of Molecular Biology*, **2003**, 332, 601-15	6.5	171
28	Type IV pili: dynamics, biophysics and functional consequences. *Nature Reviews Microbiology*, **2019**, 17, 429-440	22.2	146
27	Type IV pili in Gram-positive bacteria. *Microbiology and Molecular Biology Reviews*, **2013**, 77, 323-41	13.2	134
26	Structure of the Neisseria meningitidis Type IV pilus. *Nature Communications*, **2016**, 7, 13015	17.4	87
25	The role of structure in antibody cross-reactivity between peptides and folded proteins. *Journal of Molecular Biology*, **1998**, 281, 183-201	6.5	81
24	Random peptide libraries. *Current Opinion in Biotechnology*, **1994**, 5, 40-8	11.4	77
23	Cryoelectron Microscopy Reconstructions of the Pseudomonas aeruginosa and Neisseria gonorrhoeae Type IV Pili at Sub-nanometer Resolution. *Structure*, **2017**, 25, 1423-1435.e4	5.2	58
22	Vibrio cholerae toxin-coregulated pilus structure analyzed by hydrogen/deuterium exchange mass spectrometry. *Structure*, **2008**, 16, 137-48	5.2	57
21	Structure of the Vibrio cholerae Type IVb Pilus and stability comparison with the Neisseria gonorrhoeae type IVa pilus. *Journal of Molecular Biology*, **2012**, 418, 47-64	6.5	52

20	Ultrahigh resolution and full-length pilin structures with insights for filament assembly, pathogenic functions, and vaccine potential. *Journal of Biological Chemistry*, **2011**, 286, 44254-44265	5.4	48
19	The Vibrio cholerae Minor Pilin TcpB Initiates Assembly and Retraction of the Toxin-Coregulated Pilus. *PLoS Pathogens*, **2016**, 12, e1006109	7.6	42
18	Structures of lactate dehydrogenase A (LDHA) in apo, ternary and inhibitor-bound forms. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 185-95		33
17	The ATPase activity of BfpD is greatly enhanced by zinc and allosteric interactions with other Bfp proteins. *Journal of Biological Chemistry*, **2005**, 280, 24839-48	5.4	32
16	Vibrio cholerae El Tor TcpA crystal structure and mechanism for pilus-mediated microcolony formation. *Molecular Microbiology*, **2010**, 77, 755-70	4.1	27
15	Exploring peptide mimics for the production of antibodies against discontinuous protein epitopes. *Molecular Immunology*, **2010**, 47, 1137-48	4.3	24
14	Structure of an essential type IV pilus biogenesis protein provides insights into pilus and type II secretion systems. *Journal of Molecular Biology*, **2012**, 419, 110-24	6.5	22
13	Structural characterization of CFA/III and Longus type IVb pili from enterotoxigenic Escherichia coli. *Journal of Bacteriology*, **2012**, 194, 2725-35	3.5	19
12	Crystal Structure of the Minor Pilin CofB, the Initiator of CFA/III Pilus Assembly in Enterotoxigenic Escherichia coli. *Journal of Biological Chemistry*, **2015**, 290, 25805-18	5.4	17
11	The structure of the CS1 pilus of enterotoxigenic Escherichia coli reveals structural polymorphism. *Journal of Bacteriology*, **2013**, 195, 1360-70	3.5	15
10	Crystal structure of the Vibrio cholerae colonization factor TcpF and identification of a functional immunogenic site. *Journal of Molecular Biology*, **2011**, 409, 146-58	6.5	15
9	Crystal structures of a CTXphi pIII domain unbound and in complex with a Vibrio cholerae TolA domain reveal novel interaction interfaces. *Journal of Biological Chemistry*, **2012**, 287, 36258-72	5.4	15
8	Structure and secretion of CofJ, a putative colonization factor of enterotoxigenic Escherichia coli. *Molecular Microbiology*, **2013**, 90, 898-918	4.1	14
7	The minor pilin TcpB mediates uptake of the cholera toxin phage CTX *Journal of Biological Chemistry*, **2019**, 294, 15698-15710	5.4	10
6	Structure of the cytoplasmic domain of TcpE, the inner membrane core protein required for assembly of the Vibrio cholerae toxin-coregulated pilus. *Acta Crystallographica Section D: Biological Crystallography*, **2013**, 69, 513-9		8
5	The minor pilin PilV provides a conserved adhesion site throughout the antigenically variable meningococcal type IV pilus. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
4	Type IV pili share a conserved mechanism of motor-independent retraction that is an inherent property of the pilus filament		2
3	Expression, purification, crystallization and preliminary crystallographic analysis of PilA from the nontypeable Haemophilus influenzae type IV pilus. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 284-7		1

2	Purification of Type IV Pili and Pilin Subunits. *Methods in Molecular Biology*, **2019**, 1997, 97-110	1.4	0
1	Structure of the conserved Francisella virulence protein FvfA. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 814-821	5.5	