Stefan D Knight

List of Publications by Year
in descending order

52 papers	4,444 citations	159585 30 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	3742 citing authors

#	Article	IF	Citations
1	MrpH, a new class of metal-binding adhesin, requires zinc to mediate biofilm formation. PLoS Pathogens, 2020, 16, e1008707.	4.7	19
2	Structure of the N-terminal domain of <i>Euprosthenops australis</i> dragline silk suggests that conversion of spidroin dope to spider silk involves a conserved asymmetric dimer intermediate. Acta Crystallographica Section D: Structural Biology, 2019, 75, 618-627.	2.3	3
3	Structures of two fimbrial adhesins, AtfE and UcaD, from the uropathogen<i>Proteus mirabilis</i>. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1053-1062.	2.3	6
4	Structural basis for <i>Acinetobacter baumannii</i> biofilm formation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5558-5563.	7.1	122
5	Diazirine-functionalized mannosides for photoaffinity labeling: trouble with FimH. Beilstein Journal of Organic Chemistry, 2018, 14, 1890-1900.	2.2	4
6	A gene encoding a potential adenosine 5â€²-phosphosulphate kinase is necessary for timely development of Myxococcus xanthus. Microbiology (United Kingdom), 2016, 162, 672-683.	1.8	1
7	Breaking the intestinal barrier to deliver drugs. Science, 2015, 347, 716-717.	12.6	19
8	Carbonic Anhydrase Generates CO2 and H+ That Drive Spider Silk Formation Via Opposite Effects on the Terminal Domains. PLoS Biology, 2014, 12, e1001921.	5.6	154
9	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. Nature Communications, 2014, 5, 3254.	12.8	134
10	The BRICHOS Domain, Amyloid Fibril Formation, and Their Relationship. Biochemistry, 2013, 52, 7523-7531.	2.5	70
11	BRICHOS Domains Efficiently Delay Fibrillation of Amyloid Î²-Peptide. Journal of Biological Chemistry, 2012, 287, 31608-31617.	3.4	127
12	Large Is Fast, Small Is Tight: Determinants of Speed and Affinity in Subunit Capture by a Periplasmic Chaperone. Journal of Molecular Biology, 2012, 417, 294-308.	4.2	25
13	pHâ€Dependent Dimerization of Spider Silk N-Terminal Domain Requires Relocation of a Wedged Tryptophan Side Chain. Journal of Molecular Biology, 2012, 422, 477-487.	4.2	73
14	Crystal structure of enterotoxigenic <i><scp>E</scp>scherichia coli</i> colonization factor <scp>CS</scp>6 reveals a novel type of functional assembly. Molecular Microbiology, 2012, 86, 1100-1115.	2.5	28
15	Allosteric Mechanism Controls Traffic in the Chaperone/Usher Pathway. Structure, 2012, 20, 1861-1871.	3.3	27
16	High-resolution structure of a BRICHOS domain and its implications for anti-amyloid chaperone activity on lung surfactant protein C. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2325-2329.	7.1	108
17	Self-assembly of spider silk proteins is controlled by a pH-sensitive relay. Nature, 2010, 465, 236-238.	27.8	393
18	En route to photoaffinity labeling of the bacterial lectin FimH. Beilstein Journal of Organic Chemistry, 2010, 6, 810-822.	2.2	11

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19	Conserved Hydrophobic Clusters on the Surface of the Caf1A Usher C-Terminal Domain Are Important for F1 Antigen Assembly. Journal of Molecular Biology, 2010, 403, 243-259.	4.2	11
20	A pH-Dependent Dimer Lock in Spider Silk Protein. Journal of Molecular Biology, 2010, 404, 328-336.	4.2	62
21	Structure, Function, and Assembly of Type 1 Fimbriae. Topics in Current Chemistry, 2009, 288, 67-107.	4.0	72
22	Novel insights into the biological function of mast cell carboxypeptidase A. Trends in Immunology, 2009, 30, 401-408.	6.8	75
23	Caf1A usher possesses a Caf1 subunit-like domain that is crucial for Caf1 fibre secretion. Biochemical Journal, 2009, 418, 541-551.	3.7	15
24	Neutrophil elastase depends on serglycin proteoglycan for localization in granules. Blood, 2007, 109, 4478-4486.	1.4	88
25	A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. Molecular Microbiology, 2007, 64, 153-164.	2.5	20
26	A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. Molecular Microbiology, 2007, 64, 872-872.	2.5	0
27	Structure and Assembly of Yersinia pestis F1 Antigen. Advances in Experimental Medicine and Biology, 2007, 603, 74-87.	1.6	14
28	The affinity of the FimH fimbrial adhesin is receptor-driven and quasi-independent of Escherichia coli pathotypes. Molecular Microbiology, 2006, 61, 1556-1568.	2.5	139
29	Receptor binding studies disclose a novel class of highâ€affinity inhibitors of the <i>Escherichia coli</i> FimH adhesin. Molecular Microbiology, 2005, 55, 441-455.	2.5	372
30	Resolving the energy paradox of chaperone/usher-mediated fibre assembly. Biochemical Journal, 2005, 389, 685-694.	3.7	90
31	A role for cathepsin E in the processing of mast-cell carboxypeptidase A. Journal of Cell Science, 2005, 118, 2035-2042.	2.0	37
32	Serglycin-deficient Cytotoxic T Lymphocytes Display Defective Secretory Granule Maturation and Granzyme B Storage. Journal of Biological Chemistry, 2005, 280, 33411-33418.	3.4	95
33	Mutagenesis Elucidates The Assembly Pathway and Structure of Yersinia pestis F1 Polymer. Advances in Experimental Medicine and Biology, 2004, 529, 113-116.	1.6	0
34	Itch and skin rash from chocolate during fluoxetine and sertraline treatment: Case report. BMC Psychiatry, 2004, 4, 36.	2.6	27
35	Overexpression, purification, crystallization and preliminary X-ray diffraction analysis of the F1 antigen Caf1Mâ€“Caf1 chaperoneâ€“subunit pre-assembly complex from<i>Yersinia pestis</i>. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 359-362.	2.5	10
36	Structure and Biogenesis of the Capsular F1 Antigen from Yersinia pestis. Cell, 2003, 113, 587-596.	28.9	238

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37	Structural Basis for Bacterial Adhesion in the Urinary Tract. Advances in Experimental Medicine and Biology, 2003, 535, 33-52.	1.6	14
38	Structure of the S pilus periplasmic chaperone SfaE at 2.2â€…Ã… resolution. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1016-1022.	2.5	32
39	RSPS version 4.0: a semi-interactive vector-search program for solving heavy-atom derivatives. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 42-47.	2.5	29
40	Bacterial adhesins: structural studies reveal chaperone function and pilus biogenesis. Current Opinion in Chemical Biology, 2000, 4, 653-660.	6.1	53
41	Chaperone-assisted pilus assembly and bacterial attachment. Current Opinion in Structural Biology, 2000, 10, 548-556.	5.7	125
42	PapD-like chaperones and pilus biogenesis. Seminars in Cell and Developmental Biology, 2000, 11, 27-34.	5.0	55
43	Structural basis of chaperone self-capping in P pilus biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8178-8183.	7.1	31
44	Probing conserved surfaces on PapD. Molecular Microbiology, 1999, 31, 773-783.	2.5	34
45	X-ray Structure of the FimC-FimH Chaperone-Adhesin Complex from Uropathogenic <i>Escherichia coli</i>. Science, 1999, 285, 1061-1066.	12.6	582
46	Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus. EMBO Journal, 1998, 17, 6155-6167.	7.8	87
47	Crystallization and preliminary X-ray diffraction studies of the FimCâ€"FimH chaperoneâ€"adhesin complex from Escherichia coli. Acta Crystallographica Section D: Biological Crystallography, 1997, 53, 207-210.	2.5	2
48	2.2 Ã¥ resolution structure of the amino-terminal half of HIV-1 reverse transcriptase (fingers and palm) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.3	53
49	Crystal structure of activated tobacco rubisco complexed with the reactionâ€intermediate analogue 2â€carboxyâ€arabinitol 1, 5â€bisphosphate. Protein Science, 1993, 2, 1136-1146.	7.6	61
50	Crystallographic analysis of ribulose 1,5-bisphosphate carboxylase from spinach at 2Â·4 Ã… resolution. Journal of Molecular Biology, 1990, 215, 113-160.	4.2	319
51	Crystal structure of the active site of ribulose-bisphosphate carboxylase. Nature, 1989, 337, 229-234.	27.8	277
52	Structural Studies of Ribulose-1, 5-Bisphosphate Carboxylase/Oxygenase from Spinach. , 1989, , 111-121.		1