

# Stefan D Knight

## List of Publications by Year in descending order

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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	X-ray Structure of the FimC-FimH Chaperone-Adhesin Complex from Uropathogenic <i>Escherichia coli</i> . <i>Science</i> , 1999, 285, 1061-1066.	12.6	582
2	Self-assembly of spider silk proteins is controlled by a pH-sensitive relay. <i>Nature</i> , 2010, 465, 236-238.	27.8	393
3	Receptor binding studies disclose a novel class of high-affinity inhibitors of the <i>Escherichia coli</i> FimH adhesin. <i>Molecular Microbiology</i> , 2005, 55, 441-455.	2.5	372
4	Crystallographic analysis of ribulose 1,5-bisphosphate carboxylase from spinach at 2.4 Å resolution. <i>Journal of Molecular Biology</i> , 1990, 215, 113-160.	4.2	319
5	Crystal structure of the active site of ribulose-bisphosphate carboxylase. <i>Nature</i> , 1989, 337, 229-234.	27.8	277
6	Structure and Biogenesis of the Capsular F1 Antigen from <i>Yersinia pestis</i> . <i>Cell</i> , 2003, 113, 587-596.	28.9	238
7	Carbonic Anhydrase Generates CO <sub>2</sub> and H <sup>+</sup> That Drive Spider Silk Formation Via Opposite Effects on the Terminal Domains. <i>PLoS Biology</i> , 2014, 12, e1001921.	5.6	154
8	The affinity of the FimH fimbrial adhesin is receptor-driven and quasi-independent of <i>Escherichia coli</i> pathotypes. <i>Molecular Microbiology</i> , 2006, 61, 1556-1568.	2.5	139
9	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. <i>Nature Communications</i> , 2014, 5, 3254.	12.8	134
10	BRICHOS Domains Efficiently Delay Fibrillation of Amyloid $\beta$ -Peptide. <i>Journal of Biological Chemistry</i> , 2012, 287, 31608-31617.	3.4	127
11	Chaperone-assisted pilus assembly and bacterial attachment. <i>Current Opinion in Structural Biology</i> , 2000, 10, 548-556.	5.7	125
12	Structural basis for <i>Acinetobacter baumannii</i> biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5558-5563.	7.1	122
13	High-resolution structure of a BRICHOS domain and its implications for anti-amyloid chaperone activity on lung surfactant protein C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2325-2329.	7.1	108
14	Serglycin-deficient Cytotoxic T Lymphocytes Display Defective Secretory Granule Maturation and Granzyme B Storage. <i>Journal of Biological Chemistry</i> , 2005, 280, 33411-33418.	3.4	95
15	Resolving the energy paradox of chaperone/usher-mediated fibre assembly. <i>Biochemical Journal</i> , 2005, 389, 685-694.	3.7	90
16	Neutrophil elastase depends on serglycin proteoglycan for localization in granules. <i>Blood</i> , 2007, 109, 4478-4486.	1.4	88
17	Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus. <i>EMBO Journal</i> , 1998, 17, 6155-6167.	7.8	87
18	Novel insights into the biological function of mast cell carboxypeptidase A. <i>Trends in Immunology</i> , 2009, 30, 401-408.	6.8	75

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19	pH-Dependent Dimerization of Spider Silk N-Terminal Domain Requires Relocation of a Wedged Tryptophan Side Chain. <i>Journal of Molecular Biology</i> , 2012, 422, 477-487.	4.2	73
20	Structure, Function, and Assembly of Type 1 Fimbriae. <i>Topics in Current Chemistry</i> , 2009, 288, 67-107.	4.0	72
21	The BRICHOS Domain, Amyloid Fibril Formation, and Their Relationship. <i>Biochemistry</i> , 2013, 52, 7523-7531.	2.5	70
22	A pH-Dependent Dimer Lock in Spider Silk Protein. <i>Journal of Molecular Biology</i> , 2010, 404, 328-336.	4.2	62
23	Crystal structure of activated tobacco rubisco complexed with the reaction intermediate analogue 2-carboxyarabinitol 1, 5-bisphosphate. <i>Protein Science</i> , 1993, 2, 1136-1146.	7.6	61
24	PapD-like chaperones and pilus biogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 27-34.	5.0	55
25	2.2 Å resolution structure of the amino-terminal half of HIV-1 reverse transcriptase (fingers and palm) Tj ETQq1 1 0.784314 rrgBT /Over	3.3	58
26	Bacterial adhesins: structural studies reveal chaperone function and pilus biogenesis. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 653-660.	6.1	53
27	A role for cathepsin E in the processing of mast-cell carboxypeptidase A. <i>Journal of Cell Science</i> , 2005, 118, 2035-2042.	2.0	37
28	Probing conserved surfaces on PapD. <i>Molecular Microbiology</i> , 1999, 31, 773-783.	2.5	34
29	Structure of the S pilus periplasmic chaperone SfaE at 2.2 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1016-1022.	2.5	32
30	Structural basis of chaperone self-capping in P pilus biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 8178-8183.	7.1	31
31	RSPS version 4.0: a semi-interactive vector-search program for solving heavy-atom derivatives. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 42-47.	2.5	29
32	Crystal structure of enterotoxigenic <i>Escherichia coli</i> colonization factor CS6 reveals a novel type of functional assembly. <i>Molecular Microbiology</i> , 2012, 86, 1100-1115.	2.5	28
33	Itch and skin rash from chocolate during fluoxetine and sertraline treatment: Case report. <i>BMC Psychiatry</i> , 2004, 4, 36.	2.6	27
34	Allosteric Mechanism Controls Traffic in the Chaperone/Usher Pathway. <i>Structure</i> , 2012, 20, 1861-1871.	3.3	27
35	Large Is Fast, Small Is Tight: Determinants of Speed and Affinity in Subunit Capture by a Periplasmic Chaperone. <i>Journal of Molecular Biology</i> , 2012, 417, 294-308.	4.2	25
36	A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. <i>Molecular Microbiology</i> , 2007, 64, 153-164.	2.5	20

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37	Breaking the intestinal barrier to deliver drugs. <i>Science</i> , 2015, 347, 716-717.	12.6	19
38	MrpH, a new class of metal-binding adhesin, requires zinc to mediate biofilm formation. <i>PLoS Pathogens</i> , 2020, 16, e1008707.	4.7	19
39	Caf1A usher possesses a Caf1 subunit-like domain that is crucial for Caf1 fibre secretion. <i>Biochemical Journal</i> , 2009, 418, 541-551.	3.7	15
40	Structure and Assembly of <i>Yersinia pestis</i> F1 Antigen. <i>Advances in Experimental Medicine and Biology</i> , 2007, 603, 74-87.	1.6	14
41	Structural Basis for Bacterial Adhesion in the Urinary Tract. <i>Advances in Experimental Medicine and Biology</i> , 2003, 535, 33-52.	1.6	14
42	En route to photoaffinity labeling of the bacterial lectin FimH. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 810-822.	2.2	11
43	Conserved Hydrophobic Clusters on the Surface of the Caf1A Usher C-Terminal Domain Are Important for F1 Antigen Assembly. <i>Journal of Molecular Biology</i> , 2010, 403, 243-259.	4.2	11
44	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> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 359-362.	2.5	10
45	Structures of two fimbrial adhesins, AtfE and UcaD, from the uropathogen <i>Proteus mirabilis</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1053-1062.	2.3	6
46	Diazirine-functionalized mannosides for photoaffinity labeling: trouble with FimH. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 1890-1900.	2.2	4
47	Structure of the N-terminal domain of <i>Euprostheno australis</i> dragline silk suggests that conversion of spidroin dope to spider silk involves a conserved asymmetric dimer intermediate. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 618-627.	2.3	3
48	Crystallization and preliminary X-ray diffraction studies of the FimCâ€“FimH chaperoneâ€“adhesin complex from <i>Escherichia coli</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1997, 53, 207-210.	2.5	2
49	A gene encoding a potential adenosine 5â€²-phosphosulphate kinase is necessary for timely development of <i>Myxococcus xanthus</i> . <i>Microbiology (United Kingdom)</i> , 2016, 162, 672-683.	1.8	1
50	Structural Studies of Ribulose-1, 5-Bisphosphate Carboxylase/Oxygenase from Spinach. , 1989, , 111-121.		1
51	Mutagenesis Elucidates The Assembly Pathway and Structure of <i>Yersinia pestis</i> F1 Polymer. <i>Advances in Experimental Medicine and Biology</i> , 2004, 529, 113-116.	1.6	0
52	A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. <i>Molecular Microbiology</i> , 2007, 64, 872-872.	2.5	0