# Stefan D Knight

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 52 papers | 4,444 citations | 159358 30 h-index | 197535 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 Escherichia coli. Science, 1999, 285, 1061-1066. | 6.0 | 582 |
| 2 | Self-assembly of spider silk proteins is controlled by a pH-sensitive relay. Nature, 2010, 465, 236-238. | 13.7 | 393 |
| 3 | Receptor binding studies disclose a novel class of high-affinity inhibitors of the Escherichia coli FimH adhesin. Molecular Microbiology, 2004, 55, 441-455. | 1.2 | 372 |
| 4 | Crystallographic analysis of ribulose 1,5-bisphosphate carboxylase from spinach at 2Â·4 Ã… resolution. Journal of Molecular Biology, 1990, 215, 113-160. | 2.0 | 319 |
| 5 | Crystal structure of the active site of ribulose-bisphosphate carboxylase. Nature, 1989, 337, 229-234. | 13.7 | 277 |
| 6 | Structure and Biogenesis of the Capsular F1 Antigen from Yersinia pestis. Cell, 2003, 113, 587-596. | 13.5 | 238 |
| 7 | Carbonic Anhydrase Generates CO2 and H+ That Drive Spider Silk Formation Via Opposite Effects on the Terminal Domains. PLoS Biology, 2014, 12, e1001921. | 2.6 | 154 |
| 8 | The affinity of the FimH fimbrial adhesin is receptor-driven and quasi-independent of Escherichia coli pathotypes. Molecular Microbiology, 2006, 61, 1556-1568. | 1.2 | 139 |
| 9 | Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. Nature Communications, 2014, 5, 3254. | 5.8 | 134 |
| 10 | BRICHOS Domains Efficiently Delay Fibrillation of Amyloid Î²-Peptide. Journal of Biological Chemistry, 2012, 287, 31608-31617. | 1.6 | 127 |
| 11 | Chaperone-assisted pilus assembly and bacterial attachment. Current Opinion in Structural Biology, 2000, 10, 548-556. | 2.6 | 125 |
| 12 | 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. | 3.3 | 122 |
| 13 | 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. | 3.3 | 108 |
| 14 | Serglycin-deficient Cytotoxic T Lymphocytes Display Defective Secretory Granule Maturation and Granzyme B Storage. Journal of Biological Chemistry, 2005, 280, 33411-33418. | 1.6 | 95 |
| 15 | Resolving the energy paradox of chaperone/usher-mediated fibre assembly. Biochemical Journal, 2005, 389, 685-694. | 1.7 | 90 |
| 16 | Neutrophil elastase depends on serglycin proteoglycan for localization in granules. Blood, 2007, 109, 4478-4486. | 0.6 | 88 |
| 17 | Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus. EMBO Journal, 1998, 17, 6155-6167. | 3.5 | 87 |
| 18 | Novel insights into the biological function of mast cell carboxypeptidase A. Trends in Immunology, 2009, 30, 401-408. | 2.9 | 75 |

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|---|---|---|---|
| 19 | 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. | 2.0 | 73 |
| 20 | Structure, Function, and Assembly of Type 1 Fimbriae. Topics in Current Chemistry, 2009, 288, 67-107. | 4.0 | 72 |
| 21 | The BRICHOS Domain, Amyloid Fibril Formation, and Their Relationship. Biochemistry, 2013, 52, 7523-7531. | 1.2 | 70 |
| 22 | A pH-Dependent Dimer Lock in Spider Silk Protein. Journal of Molecular Biology, 2010, 404, 328-336. | 2.0 | 62 |
| 23 | Crystal structure of activated tobacco rubisco complexed with the reactionâ€intermediate analogue 2â€carboxyâ€arabinitol 1, 5â€bisphosphate. Protein Science, 1993, 2, 1136-1146. | 3.1 | 61 |
| 24 | PapD-like chaperones and pilus biogenesis. Seminars in Cell and Developmental Biology, 2000, 11, 27-34. | 2.3 | 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 rgBT /Overl | 1.6 | 53 |
| 26 | Bacterial adhesins: structural studies reveal chaperone function and pilus biogenesis. Current Opinion in Chemical Biology, 2000, 4, 653-660. | 2.8 | 53 |
| 27 | A role for cathepsin E in the processing of mast-cell carboxypeptidase A. Journal of Cell Science, 2005, 118, 2035-2042. | 1.2 | 37 |
| 28 | Probing conserved surfaces on PapD. Molecular Microbiology, 1999, 31, 773-783. | 1.2 | 34 |
| 29 | Structure of the S pilus periplasmic chaperone SfaE at 2.2â€...Å... resolution. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1016-1022. | 2.5 | 32 |
| 30 | 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. | 3.3 | 31 |
| 31 | 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 |
| 32 | 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. | 1.2 | 28 |
| 33 | Itch and skin rash from chocolate during fluoxetine and sertraline treatment: Case report. BMC Psychiatry, 2004, 4, 36. | 1.1 | 27 |
| 34 | Allosteric Mechanism Controls Traffic in the Chaperone/Usher Pathway. Structure, 2012, 20, 1861-1871. | 1.6 | 27 |
| 35 | 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. | 2.0 | 25 |
| 36 | A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. Molecular Microbiology, 2007, 64, 153-164. | 1.2 | 20 |

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|---|---|---|---|
| 37 | Breaking the intestinal barrier to deliver drugs. Science, 2015, 347, 716-717. | 6.0 | 19 |
| 38 | MrpH, a new class of metal-binding adhesin, requires zinc to mediate biofilm formation. PLoS Pathogens, 2020, 16, e1008707. | 2.1 | 19 |
| 39 | Caf1A usher possesses a Caf1 subunit-like domain that is crucial for Caf1 fibre secretion. Biochemical Journal, 2009, 418, 541-551. | 1.7 | 15 |
| 40 | Structure and Assembly of Yersinia pestis F1 Antigen. Advances in Experimental Medicine and Biology, 2007, 603, 74-87. | 0.8 | 14 |
| 41 | Structural Basis for Bacterial Adhesion in the Urinary Tract. Advances in Experimental Medicine and Biology, 2003, 535, 33-52. | 0.8 | 14 |
| 42 | En route to photoaffinity labeling of the bacterial lectin FimH. Beilstein Journal of Organic Chemistry, 2010, 6, 810-822. | 1.3 | 11 |
| 43 | 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. | 2.0 | 11 |
| 44 | Overexpression, purification, crystallization and preliminary X-ray diffraction analysis of the F1 antigen Caf1Mâ€“Caf1 chaperoneâ€“subunit pre-assembly complex fromYersinia pestis. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 359-362. | 2.5 | 10 |
| 45 | 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. | 1.1 | 6 |
| 46 | Diazirine-functionalized mannosides for photoaffinity labeling: trouble with FimH. Beilstein Journal of Organic Chemistry, 2018, 14, 1890-1900. | 1.3 | 4 |
| 47 | 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. | 1.1 | 3 |
| 48 | 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 |
| 49 | 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. | 0.7 | 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 Yersinia pestis F1 Polymer. Advances in Experimental Medicine and Biology, 2004, 529, 113-116. | 0.8 | 0 |
| 52 | A novel self-capping mechanism controls aggregation of periplasmic chaperone Caf1M. Molecular Microbiology, 2007, 64, 872-872. | 1.2 | 0 |