

Colin Kleanthous

List of Publications by Year in descending order

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98
papers

5,658
citations

71061

41
h-index

88593

70
g-index

124
all docs

124
docs citations

124
times ranked

4583
citing authors

#	ARTICLE	IF	CITATIONS
1	Force-Generation by the Trans-Envelope Tol-Pal System. <i>Frontiers in Microbiology</i> , 2022, 13, 852176.	1.5	7
2	Bacterial Competition Systems Share a Domain Required for Inner Membrane Transport of the Bacteriocin Pyocin G from <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2022, 13, e0339621.	1.8	6
3	Peptidoglycan maturation controls outer membrane protein assembly. <i>Nature</i> , 2022, 606, 953-959.	13.7	34
4	Pyocin efficacy in a murine model of <i>Pseudomonas aeruginosa</i> sepsis. <i>Journal of Antimicrobial Chemotherapy</i> , 2021, 76, 2317-2324.	1.3	19
5	Toxin import through the antibiotic efflux channel TolC. <i>Nature Communications</i> , 2021, 12, 4625.	5.8	11
6	Colicin-Mediated Transport of DNA through the Iron Transporter FepA. <i>MBio</i> , 2021, 12, e0178721.	1.8	7
7	Porin threading drives receptor disengagement and establishes active colicin transport through <i>Escherichia coli</i> OmpF. <i>EMBO Journal</i> , 2021, 40, e108610.	3.5	11
8	Phase separation in the outer membrane of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	53
9	The quantitative basis for the redistribution of immobile bacterial lipoproteins to division septa. <i>PLoS Computational Biology</i> , 2021, 17, e1009756.	1.5	3
10	Pyocin S5 Import into <i>Pseudomonas aeruginosa</i> Reveals a Generic Mode of Bacteriocin Transport. <i>MBio</i> , 2020, 11, .	1.8	42
11	The multifarious roles of Tol-Pal in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2020, 44, 490-506.	3.9	60
12	Bifurcated binding of the OmpF receptor underpins import of the bacteriocin colicin N into <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 9147-9156.	1.6	16
13	Genomic Profiling Reveals Distinct Routes To Complement Resistance in <i>Klebsiella pneumoniae</i> . <i>Infection and Immunity</i> , 2020, 88, .	1.0	44
14	The lipoprotein Pal stabilises the bacterial outer membrane during constriction by a mobilisation-and-capture mechanism. <i>Nature Communications</i> , 2020, 11, 1305.	5.8	50
15	Transmembrane Epitope Delivery by Passive Protein Threading through the Pores of the OmpF Porin Trimer. <i>Journal of the American Chemical Society</i> , 2020, 142, 12157-12166.	6.6	8
16	Targeted Killing of <i>Pseudomonas aeruginosa</i> by Pyocin G Occurs via the Hemin Transporter Hur. <i>Journal of Molecular Biology</i> , 2020, 432, 3869-3880.	2.0	17
17	Tools and Approaches for Dissecting Protein Bacteriocin Import in Gram-Negative Bacteria. <i>Frontiers in Microbiology</i> , 2019, 10, 646.	1.5	20
18	O-Antigen-Dependent Colicin Insensitivity of Uropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	24

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19	Intermembrane crosstalk drives inner-membrane protein organization in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2018, 9, 1082.	5.8	32
20	Structures of Teneurin adhesion receptors reveal an ancient fold for cell-cell interaction. <i>Nature Communications</i> , 2018, 9, 1079.	5.8	68
21	Ultrahigh specificity in a network of computationally designed protein-interaction pairs. <i>Nature Communications</i> , 2018, 9, 5286.	5.8	49
22	Compartmentalizing acid stress in bacteria. <i>Nature Chemical Biology</i> , 2018, 14, 993-994.	3.9	1
23	The CcmC-CcmE interaction during cytochrome c maturation by System I is driven by protein-protein and not protein-heme contacts. <i>Journal of Biological Chemistry</i> , 2018, 293, 16778-16790.	1.6	7
24	Directional Porin Binding of Intrinsically Disordered Protein Sequences Promotes Colicin Epitope Display in the Bacterial Periplasm. <i>Biochemistry</i> , 2018, 57, 4374-4381.	1.2	12
25	How nanoscale protein interactions determine the mesoscale dynamic organisation of bacterial outer membrane proteins. <i>Nature Communications</i> , 2018, 9, 2846.	5.8	49
26	Lipid binding attenuates channel closure of the outer membrane protein OmpF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6691-6696.	3.3	39
27	Professor William V. Shaw. <i>Biochemist</i> , 2018, 40, 50.	0.2	0
28	Orientation of the OmpF Porin in Planar Lipid Bilayers. <i>ChemBioChem</i> , 2017, 18, 554-562.	1.3	20
29	Exploitation of an iron transporter for bacterial protein antibiotic import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12051-12056.	3.3	76
30	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membrane-Spanning Protein. <i>Angewandte Chemie</i> , 2017, 129, 15069-15073.	1.6	11
31	Carbene Footprinting Reveals Binding Interfaces of a Multimeric Membrane-Spanning Protein. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14873-14877.	7.2	33
32	Native Desorption Electrospray Ionization Liberates Soluble and Membrane Protein Complexes from Surfaces. <i>Angewandte Chemie</i> , 2017, 129, 14655-14660.	1.6	17
33	Native Desorption Electrospray Ionization Liberates Soluble and Membrane Protein Complexes from Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14463-14468.	7.2	46
34	Innenr�cktitelbild: Native Desorption Electrospray Ionization Liberates Soluble and Membrane Protein Complexes from Surfaces (<i>Angew. Chem.</i> 46/2017). <i>Angewandte Chemie</i> , 2017, 129, 14965-14965.	1.6	0
35	The therapeutic potential of bacteriocins as protein antibiotics. <i>Emerging Topics in Life Sciences</i> , 2017, 1, 65-74.	1.1	80
36	Diversity and distribution of nuclease bacteriocins in bacterial genomes revealed using Hidden Markov Models. <i>PLoS Computational Biology</i> , 2017, 13, e1005652.	1.5	52

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37	Exploring emerging topics. <i>Emerging Topics in Life Sciences</i> , 2017, 1, e1-e2.	1.1	0
38	The anti-sigma factor RsrA responds to oxidative stress by reburying its hydrophobic core. <i>Nature Communications</i> , 2016, 7, 12194.	5.8	26
39	Discovery, characterization and <i>in vivo</i> activity of pyocin SD2, a protein antibiotic from <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2016, 473, 2345-2358.	1.7	42
40	Structural and biophysical analysis of nuclease protein antibiotics. <i>Biochemical Journal</i> , 2016, 473, 2799-2812.	1.7	12
41	High-resolution mass spectrometry of small molecules bound to membrane proteins. <i>Nature Methods</i> , 2016, 13, 333-336.	9.0	205
42	Supramolecular assemblies underpin turnover of outer membrane proteins in bacteria. <i>Nature</i> , 2015, 523, 333-336.	13.7	170
43	Protein-protein interactions and the spatiotemporal dynamics of bacterial outer membrane proteins. <i>Current Opinion in Structural Biology</i> , 2015, 35, 109-115.	2.6	45
44	Consequences of Inducing Intrinsic Disorder in a High-Affinity Protein-Protein Interaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 5252-5255.	6.6	23
45	The bacterial cell envelope. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150019.	1.8	30
46	Structure and Function of the <i>Escherichia coli</i> Tol-Pal Stator Protein TolR. <i>Journal of Biological Chemistry</i> , 2015, 290, 26675-26687.	1.6	35
47	Structures of the Ultra-High-Affinity Protein-Protein Complexes of Pyocins S2 and AP41 and Their Cognate Immunity Proteins from <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Biology</i> , 2015, 427, 2852-2866.	2.0	25
48	Immunity protein release from a cell-bound nuclease colicin complex requires global conformational rearrangement. <i>MicrobiologyOpen</i> , 2013, 2, 853-861.	1.2	5
49	A Force-Activated Trip Switch Triggers Rapid Dissociation of a Colicin from Its Immunity Protein. <i>PLoS Biology</i> , 2013, 11, e1001489.	2.6	26
50	Intrinsically Disordered Protein Threads Through the Bacterial Outer-Membrane Porin OmpF. <i>Science</i> , 2013, 340, 1570-1574.	6.0	109
51	Colicin translocation across the <i>Escherichia coli</i> outer membrane. <i>Biochemical Society Transactions</i> , 2012, 40, 1475-1479.	1.6	20
52	Structure of the Ultra-High-Affinity Colicin E2 DNase-Im2 Complex. <i>Journal of Molecular Biology</i> , 2012, 417, 79-94.	2.0	54
53	Kinetic Basis for the Competitive Recruitment of TolB by the Intrinsically Disordered Translocation Domain of Colicin E9. <i>Journal of Molecular Biology</i> , 2012, 418, 269-280.	2.0	22
54	Nuclease colicins and their immunity proteins. <i>Quarterly Reviews of Biophysics</i> , 2012, 45, 57-103.	2.4	69

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55	Translocator hunt comes full CirêCol. <i>Molecular Microbiology</i> , 2010, 75, 529-533.	1.2	8
56	Structural basis for 16S ribosomal RNA cleavage by the cytotoxic domain of colicin E3. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1241-1246.	3.6	44
57	Swimming against the tide: progress and challenges in our understanding of colicin translocation. <i>Nature Reviews Microbiology</i> , 2010, 8, 843-848.	13.6	131
58	Directed epitope delivery across the <i>Escherichia coli</i> outer membrane through the porin OmpF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21412-21417.	3.3	84
59	The structural and energetic basis for high selectivity in a high-affinity protein-protein interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10080-10085.	3.3	112
60	TolA Modulates the Oligomeric Status of YbgF in the Bacterial Periplasm. <i>Journal of Molecular Biology</i> , 2010, 403, 270-285.	2.0	34
61	Energy-dependent Immunity Protein Release during tol-dependent Nuclease Colicin Translocation. <i>Journal of Biological Chemistry</i> , 2009, 284, 18932-18941.	1.6	39
62	Allosteric Î²-propeller signalling in TolB and its manipulation by translocating colicins. <i>EMBO Journal</i> , 2009, 28, 2846-2857.	3.5	81
63	Following evolutionary paths to protein-protein interactions with high affinity and selectivity. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1049-1055.	3.6	75
64	Experimental and Computational Analyses of the Energetic Basis for Dual Recognition of Immunity Proteins by Colicin Endonucleases. <i>Journal of Molecular Biology</i> , 2008, 379, 745-759.	2.0	41
65	The Role of Electrostatics in Colicin Nuclease Domain Translocation into Bacterial Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 31389-31397.	1.6	59
66	Colicin Biology. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 158-229.	2.9	902
67	Molecular Mimicry Enables Competitive Recruitment by a Natively Disordered Protein. <i>Journal of the American Chemical Society</i> , 2007, 129, 4800-4807.	6.6	96
68	Calorimetric Dissection of Colicin DNase~Immunity Protein Complex Specificity. <i>Biochemistry</i> , 2006, 45, 3243-3254.	1.2	36
69	Competitive recruitment of the periplasmic translocation portal TolB by a natively disordered domain of colicin E9. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12353-12358.	3.3	68
70	Cell entry mechanism of enzymatic bacterial colicins: Porin recruitment and the thermodynamics of receptor binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13849-13854.	3.3	87
71	Rapid Detection of Colicin E9-Induced DNA Damage Using <i>Escherichia coli</i> Cells Carrying SOS Promoter- lux Fusions. <i>Journal of Bacteriology</i> , 2005, 187, 4900-4907.	1.0	26
72	The Kinetic Basis for Dual Recognition in Colicin Endonuclease~Immunity Protein Complexes. <i>Journal of Molecular Biology</i> , 2005, 352, 656-671.	2.0	29

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73	Structure-based Analysis of the Metal-dependent Mechanism of H-N-H Endonucleases. <i>Journal of Biological Chemistry</i> , 2004, 279, 34763-34769.	1.6	58
74	Transcriptional Profiling of Colicin-Induced Cell Death of <i>Escherichia coli</i> MG1655 Identifies Potential Mechanisms by Which Bacteriocins Promote Bacterial Diversity. <i>Journal of Bacteriology</i> , 2004, 186, 866-869.	1.0	40
75	Destabilization of the Colicin E9 Endonuclease Domain by Interaction with Negatively Charged Phospholipids. <i>Journal of Biological Chemistry</i> , 2004, 279, 22145-22151.	1.6	26
76	Flexibility in the Receptor-Binding Domain of the Enzymatic Colicin E9 Is Required for Toxicity against <i>Escherichia coli</i> Cells. <i>Journal of Bacteriology</i> , 2004, 186, 4520-4527.	1.0	29
77	Identification of the catalytic motif of the microbial ribosome inactivating cytotoxin colicin E3. <i>Protein Science</i> , 2004, 13, 1603-1611.	3.1	37
78	Highly Discriminating Protein-Protein Interaction Specificities in the Context of a Conserved Binding Energy Hotspot. <i>Journal of Molecular Biology</i> , 2004, 337, 743-759.	2.0	67
79	OmpF enhances the ability of BtuB to protect susceptible <i>Escherichia coli</i> cells from colicin E9 cytotoxicity. <i>FEBS Letters</i> , 2003, 545, 127-132.	1.3	16
80	Thermodynamic Consequences of Bipartite Immunity Protein Binding to the Ribosomal Ribonuclease Colicin E3. <i>Biochemistry</i> , 2003, 42, 4161-4171.	1.2	44
81	Mutagenic scan of the H-N-H motif of colicin E9: implications for the mechanistic enzymology of colicins, homing enzymes and apoptotic endonucleases. <i>Nucleic Acids Research</i> , 2002, 30, 3225-3234.	6.5	60
82	The cytotoxic domain of colicin E9 is a channel-forming endonuclease. <i>Nature Structural Biology</i> , 2002, 9, 476-484.	9.7	52
83	Mechanism and cleavage specificity of the H-N-H endonuclease colicin E9 1. Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 314, 735-749.	2.0	96
84	Immunity proteins: enzyme inhibitors that avoid the active site. <i>Trends in Biochemical Sciences</i> , 2001, 26, 624-631.	3.7	100
85	A 76-residue polypeptide of colicin E9 confers receptor specificity and inhibits the growth of vitamin B12-dependent <i>Escherichia coli</i> 113/3 cells. <i>Molecular Microbiology</i> , 2000, 38, 639-649.	1.2	35
86	Specificity in protein-protein interactions: the structural basis for dual recognition in endonuclease colicin-immunity protein complexes. <i>Journal of Molecular Biology</i> , 2000, 301, 1163-1178.	2.0	141
87	Homing in on the Role of Transition Metals in the HNH Motif of Colicin Endonucleases. <i>Journal of Biological Chemistry</i> , 1999, 274, 27153-27160.	1.6	70
88	Structural and mechanistic basis of immunity toward endonuclease colicins. <i>Nature Structural Biology</i> , 1999, 6, 243-252.	9.7	156
89	Immunity proteins and their specificity for endonuclease colicins: telling right from wrong in protein-protein recognition. <i>Molecular Microbiology</i> , 1998, 28, 227-233.	1.2	88
90	Specificity in Protein-Protein Recognition: A Conserved Im9 Residue Is the Major Determinant of Stability in the Colicin E9 DNase-Im9 Complex. <i>Biochemistry</i> , 1998, 37, 476-485.	1.2	72

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91	Dual Recognition and the Role of Specificity-Determining Residues in Colicin E9 DNase-Immunity Protein Interactions. <i>Biochemistry</i> , 1998, 37, 11771-11779.	1.2	54
92	Enzymological characterization of the nuclease domain from the bacterial toxin colicin E9 from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 1998, 334, 387-392.	1.7	61
93	Identification of residues in the putative TolA box which are essential for the toxicity of the endonuclease toxin colicin E9. <i>Microbiology (United Kingdom)</i> , 1997, 143, 2931-2938.	0.7	43
94	Protein-Protein Interaction Specificity of Im9 for the Endonuclease Toxin Colicin E9 Defined by Homologue-scanning Mutagenesis. <i>Journal of Biological Chemistry</i> , 1997, 272, 22253-22258.	1.6	38
95	Identification of Putative Active-site Residues in the DNase Domain of Colicin E9 by Random Mutagenesis. <i>Journal of Molecular Biology</i> , 1996, 260, 731-742.	2.0	69
96	Protein-Protein Interactions in Colicin E9 DNase-Immunity Protein Complexes. 2. Cognate and Noncognate Interactions That Span the Millimolar to Femtomolar Affinity Range. <i>Biochemistry</i> , 1995, 34, 13751-13759.	1.2	93
97	Protein-Protein Interactions in Colicin E9 DNase-Immunity Protein Complexes. 1. Diffusion-Controlled Association and Femtomolar Binding for the Cognate Complex. <i>Biochemistry</i> , 1995, 34, 13743-13750.	1.2	149
98	In vivo and in vitro characterization of overproduced colicin E9 immunity protein. <i>FEBS Journal</i> , 1992, 207, 687-695.	0.2	57