Tim R Blower

List of Publications by Year
in descending order

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27 papers	1,510 citations	516215 16 h-index	552369 26 g-index
29 all docs	29 docs citations	29 times ranked	1630 citing authors

#	Article	IF	Citations
1	The phage abortive infection system, ToxIN, functions as a proteinâ€“RNA toxinâ€“antitoxin pair. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 894-899.	3.3	445
2	Crystal structure and stability of gyraseâ€“fluoroquinolone cleaved complexes from Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1706-1713.	3.3	164
3	Identification and classification of bacterial Type III toxinâ€“antitoxin systems encoded in chromosomal and plasmid genomes. Nucleic Acids Research, 2012, 40, 6158-6173.	6.5	129
4	A processed noncoding RNA regulates an altruistic bacterial antiviral system. Nature Structural and Molecular Biology, 2011, 18, 185-190.	3.6	115
5	Viral Evasion of a Bacterial Suicide System by RNAâ€“Based Molecular Mimicry Enables Infectious Altruism. PLoS Genetics, 2012, 8, e1003023.	1.5	108
6	Balancing at survival's edge: the structure and adaptive benefits of prokaryotic toxinâ€“antitoxin partners. Current Opinion in Structural Biology, 2011, 21, 109-118.	2.6	89
7	Fluoroquinolone interactions with Mycobacterium tuberculosis gyrase: Enhancing drug activity against wild-type and resistant gyrase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E839-46.	3.3	73
8	Selectivity and self-assembly in the control of a bacterial toxin by an antitoxic noncoding RNA pseudoknot. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E241-9.	3.3	57
9	The phage defence island of a multidrug resistant plasmid uses both BREX and type IV restriction for complementary protection from viruses. Nucleic Acids Research, 2021, 49, 11257-11273.	6.5	52
10	Evolution of Pectobacterium Bacteriophage Î¦M1 To Escape Two Bifunctional Type III Toxin-Antitoxin and Abortive Infection Systems through Mutations in a Single Viral Gene. Applied and Environmental Microbiology, 2017, 83, .	1.4	47
11	A nucleotidyltransferase toxin inhibits growth of Mycobacterium tuberculosis through inactivation of tRNA acceptor stems. Science Advances, 2020, 6, eabb6651.	4.7	30
12	Co-evolution of quaternary organization and novel RNA tertiary interactions revealed in the crystal structure of a bacterial proteinâ€“RNA toxinâ€“antitoxin system. Nucleic Acids Research, 2015, 43, 9529-9540.	6.5	24
13	Mechanism of Action of Mycobacterium tuberculosis Gyrase Inhibitors: A Novel Class of Gyrase Poisons. ACS Infectious Diseases, 2018, 4, 1211-1222.	1.8	23
14	AbiEi Binds Cooperatively to the Type IV abiE Toxinâ€“Antitoxin Operator Via a Positively-Charged Surface and Causes DNA Bending and Negative Autoregulation. Journal of Molecular Biology, 2018, 430, 1141-1156.	2.0	20
15	A widespread family of WYL-domain transcriptional regulators co-localizes with diverse phage defence systems and islands. Nucleic Acids Research, 2022, 50, 5191-5207.	6.5	19
16	Recognition of DNA Supercoil Geometry by Mycobacterium tuberculosis Gyrase. Biochemistry, 2017, 56, 5440-5448.	1.2	17
17	Anticancer Ru II and Rh III Pianoâ€Stool Complexes that are Histone Deacetylase Inhibitors. ChemPlusChem, 2016, 81, 1276-1280.	1.3	16
18	A promiscuous antitoxin of bacteriophage T4 ensures successful viral replication. Molecular Microbiology, 2012, 83, 665-668.	1.2	13

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19	DNA driven self-assembly of micron-sized rods using DNA-grafted bacteriophage fd virions. Physical Chemistry Chemical Physics, 2015, 17, 8194-8202.	1.3	11
20	A complex suite of loci and elements in eukaryotic type II topoisomerases determine selective sensitivity to distinct poisoning agents. Nucleic Acids Research, 2019, 47, 8163-8179.	6.5	10
21	Viral molecular mimicry circumvents abortive infection and suppresses bacterial suicide to make hosts permissive for replication. Bacteriophage, 2012, 2, e23830.	1.9	9
22	Antitoxin autoregulation of M. tuberculosis toxin-antitoxin expression through negative cooperativity arising from multiple inverted repeat sequences. Biochemical Journal, 2020, 477, 2401-2419.	1.7	9
23	Anticancer Ruthenium Complexes with HDAC Isoform Selectivity. Molecules, 2020, 25, 2383.	1.7	8
24	Crystal structure of the anti-CRISPR repressor Aca2. Journal of Structural Biology, 2021, 213, 107752.	1.3	6
25	A comprehensive structural analysis of the ATPase domain of human DNA topoisomerase II beta bound to AMPPNP, ADP, and the bisdioxopiperazine, ICRF193. Structure, 2022, 30, 1129-1145.e3.	1.6	6
26	Crystal structure of the BREX phage defence protein BrxA. Current Research in Structural Biology, 2022, 4, 211-219.	1.1	4
27	Type III Toxin-Antitoxin Loci. , 2013, , 249-265.		0