Ian Rf Grainge

List of Publications by Year
in descending order

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51 papers	1,854 citations	236925 25 h-index	276875 41 g-index
54 all docs	54 docs citations	54 times ranked	1398 citing authors

#	Article	IF	Citations
1	Mg 2+ binding to tRNA revisited: the nonlinear poisson-boltzmann model 1 1Edited by B. Honig. Journal of Molecular Biology, 2000, 299, 813-825.	4.2	145
2	The integrase family of recombinases: organization and function of the active site. Molecular Microbiology, 1999, 33, 449-456.	2.5	142
3	Biofilms Enhance the Adsorption of Toxic Contaminants on Plastic Microfibers under Environmentally Relevant Conditions. Environmental Science & Technology, 2021, 55, 8877-8887.	10.0	108
4	Tracking of controlled Escherichia coli replication fork stalling and restart at repressor-bound DNA in vivo. EMBO Journal, 2006, 25, 2596-2604.	7.8	107
5	Molecular Mechanism of Sequence-Directed DNA Loading and Translocation by FtsK. Molecular Cell, 2008, 31, 498-509.	9.7	97
6	Unlinking chromosome catenanes in vivo by site-specific recombination. EMBO Journal, 2007, 26, 4228-4238.	7.8	93
7	Conformational Changes Induced by Nucleotide Binding in Cdc6/ORC From Aeropyrum pernix. Journal of Molecular Biology, 2004, 343, 547-557.	4.2	73
8	Exploring the Composition and Functions of Plastic Microbiome Using Whole-Genome Sequencing. Environmental Science & Technology, 2021, 55, 4899-4913.	10.0	71
9	The Escherichia coli DNA translocase FtsK. Biochemical Society Transactions, 2010, 38, 395-398.	3.4	65
10	Understanding the Fundamental Basis for Biofilm Formation on Plastic Surfaces: Role of Conditioning Films. Frontiers in Microbiology, 2021, 12, 687118.	3.5	62
11	Geometry of site alignment during Int family recombination: antiparallel synapsis by the Flp recombinase. Journal of Molecular Biology, 2000, 298, 749-764.	4.2	61
12	Activation of XerCD-dif recombination by the FtsK DNA translocase. Nucleic Acids Research, 2011, 39, 5140-5148.	14.5	61
13	Biochemical analysis of components of the pre-replication complex of Archaeoglobus fulgidus. Nucleic Acids Research, 2003, 31, 4888-4898.	14.5	59
14	FtsK-dependent XerCD-dif recombination unlinks replication catenanes in a stepwise manner. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20906-20911.	7.1	58
15	Action of site-specific recombinases XerC and XerD on tethered Holliday junctions. EMBO Journal, 1997, 16, 3731-3743.	7.8	52
16	Biochemical Analysis of a DNA Replication Origin in the Archaeon Aeropyrum pernix. Journal of Molecular Biology, 2006, 363, 355-369.	4.2	48
17	FtsK DNA Translocase: The Fast Motor That Knows Where It's Going. ChemBioChem, 2010, 11, 2232-2243.	2.6	48
18	Biological Nanomotors with a Revolution, Linear, or Rotation Motion Mechanism. Microbiology and Molecular Biology Reviews, 2016, 80, 161-186.	6.6	47

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19	Wild-type Flp recombinase cleaves DNA in trans. EMBO Journal, 1999, 18, 784-791.	7.8	43
20	Unveiling Two Distinct Ribonuclease Activities and a Topoisomerase Activity in a Site-Specific DNA Recombinase. Molecular Cell, 1998, 1, 729-739.	9.7	42
21	Separating speed and ability to displace roadblocks during DNA translocation by FtsK. EMBO Journal, 2010, 29, 1423-1433.	7.8	34
22	Effects of Holliday junction position on Xer-mediated recombination in vitro.. EMBO Journal, 1995, 14, 2651-2660.	7.8	33
23	Stability of blocked replication forksin vivo. Nucleic Acids Research, 2016, 44, 657-668.	14.5	32
24	Symmetric DNA Sites are Functionally Asymmetric Within Flp and Cre Site-specific DNA Recombination Synapses. Journal of Molecular Biology, 2002, 320, 515-527.	4.2	31
25	FtsK â€“ a bacterial cell division checkpoint?. Molecular Microbiology, 2010, 78, 1055-1057.	2.5	26
26	Fingerprinting Plastic-Associated Inorganic and Organic Matter on Plastic Aged in the Marine Environment for a Decade. Environmental Science & Technology, 2021, 55, 7407-7417.	10.0	25
27	Mobilization of pdif modules in Acinetobacter: A novel mechanism for antibiotic resistance gene shuffling?. Molecular Microbiology, 2020, 114, 699-709.	2.5	22
28	Biochemical Characterization of the Minichromosome Maintenance (MCM) Protein of the Crenarchaeote Aeropyrum pernix and Its Interactions with the Origin Recognition Complex (ORC) Proteins. Biochemistry, 2008, 47, 13362-13370.	2.5	17
29	Activation of Xer-recombination at dif: structural basis of the FtsKÎ³â€“XerD interaction. Scientific Reports, 2016, 6, 33357.	3.3	17
30	Bioavailability of arsenic, cadmium, lead and mercury as measured by intestinal permeability. Scientific Reports, 2021, 11, 14675.	3.3	17
31	FtsK and SpoIIIE, coordinators of chromosome segregation and envelope remodeling in bacteria. Trends in Microbiology, 2022, 30, 480-494.	7.7	16
32	Two classes of nucleic acid translocation motors: rotation and revolution without rotation. Cell and Bioscience, 2014, 4, 54.	4.8	15
33	Simple topology: FtsK-directed recombination at the dif site. Biochemical Society Transactions, 2013, 41, 595-600.	3.4	13
34	Replication fork collapse at a proteinâ€“DNA roadblock leads to fork reversal, promoted by the RecQ helicase. Molecular Microbiology, 2019, 111, 455-472.	2.5	12
35	Xer Site-specific Recombination. Journal of Biological Chemistry, 1999, 274, 6763-6769.	3.4	10
36	Site-specific recombination. , 2006, , 443-467.		8

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37	Gut microbes modulate bioaccessibility of lead in soil. Chemosphere, 2021, 270, 128657.	8.2	7
38	Biochemical and Kinetic Analysis of the RNase Active Sites of the Integrase/Tyrosine Family Site-specific DNA Recombinases. Journal of Biological Chemistry, 2001, 276, 46612-46623.	3.4	6
39	DNA recombination and RNA cleavage activities of the Flp protein: roles of two histidine residues in the orientation and activation of the nucleophile for strand cleavage 1 1Edited by M. Gottesman. Journal of Molecular Biology, 2001, 314, 717-733.	4.2	5
40	Sporulation: SpoIIIE Is the Key to Cell Differentiation. Current Biology, 2008, 18, R871-R872.	3.9	5
41	A Mini-ISY100 Transposon Delivery System Effective in Î³ Proteobacteria. Frontiers in Microbiology, 2019, 10, 280.	3.5	5
42	Complete Genome Sequences of Bacteriophages Kaya, Guyu, Kopi, and TehO, Which Target Clinical Strains of Pseudomonas aeruginosa. Microbiology Resource Announcements, 2021, 10, e0104321.	0.6	5
43	Introduction to site-specific recombination. , 2005, , 33-82.		4
44	Differential toxicity of potentially toxic elements to human gut microbes. Chemosphere, 2022, 303, 134958.	8.2	4
45	Inhibition of Flp Recombinase by the Topoisomerase I-targeting Drugs, Camptothecin and NSC-314622. Journal of Biological Chemistry, 2001, 276, 6993-6997.	3.4	1
46	Biochemical and kinetic analysis of the RNase active sites of the integrase/tyrosine family site-specific recombinases.. Journal of Biological Chemistry, 2002, 277, 6758.	3.4	1
47	Neutralâ€“Neutral 2-Dimensional Agarose Gel Electrophoresis for Visualization of E. coli DNA Replication Structures. Methods in Molecular Biology, 2020, 2119, 61-72.	0.9	1
48	Applications of Fungal Site-specific Recombination as a Tool in Biotechnology and Basic Biology. Applied Mycology and Biotechnology, 2005, , 189-210.	0.3	0
49	Imaging fluorescent protein fusions in live bacteria. Methods in Microbiology, 2012, 39, 107-126.	0.8	0
50	Inducing a Site Specific Replication Blockage in E. coli Using a Fluorescent Repressor Operator System. Journal of Visualized Experiments, 2016, , .	0.3	0
51	DNA translocation by hexameric FtsK. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C134-C134.	0.3	0