

Aleksandra Nivina

List of Publications by Year in descending order

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15
papers

487
citations

933447

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1125743

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18
all docs

18
docs citations

18
times ranked

597
citing authors

#	ARTICLE	IF	CITATIONS
1	GRINS: Genetic elements that recode assembly-line polyketide synthases and accelerate their diversification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
2	Artificial intelligence and data science applied to bioengineering. AIMS Bioengineering, 2021, 8, 93-94.	1.1	0
3	Structure-specific DNA recombination sites: Design, validation, and machine learning-based refinement. Science Advances, 2020, 6, eaay2922.	10.3	17
4	Primary and promiscuous functions coexist during evolutionary innovation through whole protein domain acquisitions. ELife, 2020, 9, .	6.0	7
5	Integron Identification in Bacterial Genomes and Cassette Recombination Assays. Methods in Molecular Biology, 2020, 2075, 189-208.	0.9	9
6	Engineering of Chimeric Polyketide Synthases Using SYNZIP Docking Domains. ACS Chemical Biology, 2019, 14, 426-433.	3.4	31
7	Evolution and Diversity of Assembly-Line Polyketide Synthases. Chemical Reviews, 2019, 119, 12524-12547.	47.7	178
8	Structural heterogeneity of <i>attC</i> integron recombination sites revealed by optical tweezers. Nucleic Acids Research, 2019, 47, 1861-1870.	14.5	18
9	Recoding of synonymous genes to expand evolutionary landscapes requires control of secondary structure affecting translation. Biotechnology and Bioengineering, 2018, 115, 184-191.	3.3	4
10	Differences in Integron Cassette Excision Dynamics Shape a Trade-Off between Evolvability and Genetic Capacitance. MBio, 2017, 8, .	4.1	27
11	Dynamic stepwise opening of integron <i>attC</i> DNA hairpins by SSB prevents toxicity and ensures functionality. Nucleic Acids Research, 2017, 45, 10555-10563.	14.5	23
12	Unmasking the ancestral activity of integron integrases reveals a smooth evolutionary transition during functional innovation. Nature Communications, 2016, 7, 10937.	12.8	24
13	Efficiency of integron cassette insertion in correct orientation is ensured by the interplay of the three unpaired features of <i>attC</i> recombination sites. Nucleic Acids Research, 2016, 44, 7792-7803.	14.5	38
14	The Integron: Adaptation On Demand. Microbiology Spectrum, 2015, 3, MDNA3-0019-2014.	3.0	95
15	DNA Secondary Structure Formation in Bacterial Gene Capture Systems at Single-Molecule Resolution. Biophysical Journal, 2014, 106, 272a-273a.	0.5	0