

Nathan A Tanner

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,212
citations

430874

18
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual detection of isothermal nucleic acid amplification using pH-sensitive dyes. <i>BioTechniques</i> , 2015, 58, 59-68.	1.8	458
2	Simultaneous multiple target detection in real-time loop-mediated isothermal amplification. <i>BioTechniques</i> , 2012, 53, 81-89.	1.8	203
3	Enhancing colorimetric loop-mediated isothermal amplification speed and sensitivity with guanidine chloride. <i>BioTechniques</i> , 2020, 69, 178-185.	1.8	160
4	Single-molecule studies of fork dynamics in <i>Escherichia coli</i> DNA replication. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 170-176.	8.2	136
5	Dynamic DNA Helicase-DNA Polymerase Interactions Assure Processive Replication Fork Movement. <i>Molecular Cell</i> , 2007, 27, 539-549.	9.7	108
6	Real-time single-molecule observation of rolling-circle DNA replication. <i>Nucleic Acids Research</i> , 2009, 37, e27-e27.	14.5	102
7	Base modifications affecting RNA polymerase and reverse transcriptase fidelity. <i>Nucleic Acids Research</i> , 2018, 46, 5753-5763.	14.5	91
8	Rapid colorimetric detection of Zika virus from serum and urine specimens by reverse transcription loop-mediated isothermal amplification (RT-LAMP). <i>PLoS ONE</i> , 2017, 12, e0185340.	2.5	85
9	Colorimetric tests for diagnosis of filarial infection and vector surveillance using non-instrumented nucleic acid loop-mediated isothermal amplification (NINA-LAMP). <i>PLoS ONE</i> , 2017, 12, e0169011.	2.5	73
10	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. <i>PLoS ONE</i> , 2020, 15, e0238612.	2.5	58
11	Comparative Evaluation and Quantitative Analysis of Loop-Mediated Isothermal Amplification Indicators. <i>Analytical Chemistry</i> , 2020, 92, 13343-13353.	6.5	54
12	Diagnosis of Brugian Filariasis by Loop-Mediated Isothermal Amplification. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1948.	3.0	49
13	<i>E. coli</i> DNA replication in the absence of free τ^2 clamps. <i>EMBO Journal</i> , 2011, 30, 1830-1840.	7.8	42
14	Visualizing DNA Replication at the Single-Molecule Level. <i>Methods in Enzymology</i> , 2010, 475, 259-278.	1.0	36
15	Clinical Assessment and Validation of a Rapid and Sensitive SARS-CoV-2 Test Using Reverse Transcription Loop-Mediated Isothermal Amplification Without the Need for RNA Extraction. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofaa631.	0.9	36
16	Development of multiplexed reverse-transcription loop-mediated isothermal amplification for detection of SARS-CoV-2 and influenza viral RNA. <i>BioTechniques</i> , 2021, 70, 167-174.	1.8	31
17	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 228-275.	1.5	28
18	Comparison of a new visual isothermal nucleic acid amplification test with PCR and skin snip analysis for diagnosis of onchocerciasis in humans. <i>Molecular and Biochemical Parasitology</i> , 2016, 210, 10-12.	1.1	27

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19	Single-stranded binding proteins and helicase enhance the activity of prokaryotic argonautes in vitro. PLoS ONE, 2018, 13, e0203073.	2.5	20
20	Isothermal Amplification of Long, Discrete DNA Fragments Facilitated by Single-Stranded Binding Protein. Scientific Reports, 2017, 7, 8497.	3.3	19
21	Single-Molecule Observation of Prokaryotic DNA Replication. Methods in Molecular Biology, 2009, 521, 397-410.	0.9	18
22	Nucleic acid detection aboard the International Space Station by colorimetric loop-mediated isothermal amplification (LAMP). FASEB BioAdvances, 2020, 2, 160-165.	2.4	16
23	Genome Filtering for New DNA Biomarkers of Loa loa Infection Suitable for Loop-Mediated Isothermal Amplification. PLoS ONE, 2015, 10, e0139286.	2.5	16
24	Profiling RT-LAMP tolerance of sequence variation for SARS-CoV-2 RNA detection. PLoS ONE, 2022, 17, e0259610.	2.5	14
25	Optimization of novel loop-mediated isothermal amplification with colorimetric image analysis for forensic body fluid identification. Journal of Forensic Sciences, 2021, 66, 1033-1041.	1.6	12
26	Development and implementation of a simple and rapid extraction-free saliva SARS-CoV-2 RT-LAMP workflow for workplace surveillance. PLoS ONE, 2022, 17, e0268692.	2.5	11
27	High-temperature single-molecule kinetic analysis of thermophilic archaeal MCM helicases. Nucleic Acids Research, 2016, 44, 8764-8771.	14.5	9
28	Profiling Thermus thermophilus Argonaute Guide DNA Sequence Preferences by Functional Screening. Frontiers in Molecular Biosciences, 2021, 8, 670940.	3.5	8
29	Improving RT-LAMP detection of SARS-CoV-2 RNA through primer set selection and combination. PLoS ONE, 2022, 17, e0254324.	2.5	8
30	Improving Performance of a SARS-CoV-2 RT-LAMP Assay for Use With a Portable Isothermal Fluorimeter: Towards a Point-of-Care Molecular Testing Strategy. Journal of Biomolecular Techniques, 2021, 32, 180-185.	1.5	7
31	A single molecule DNA flow stretching microscope for undergraduates. American Journal of Physics, 2011, 79, 1112-1120.	0.7	5
32	Visualizing Single-molecule DNA Replication with Fluorescence Microscopy. Journal of Visualized Experiments, 2009, . .	0.3	4