

# Sanchita Bhadra

## List of Publications by Year in descending order

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35  
papers

1,609  
citations

430874

18  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Bst DNA Polymerase Variants Derived via a Machine Learning Approach. <i>Biochemistry</i> , 2023, 62, 410-418.	2.5	20
2	Preparation and Use of Cellular Reagents: A Low-resource Molecular Biology Reagent Platform. <i>Current Protocols</i> , 2022, 2, e387.	2.9	4
3	Charge Engineering Improves the Performance of Bst DNA Polymerase Fusions. <i>ACS Synthetic Biology</i> , 2022, 11, 1488-1496.	3.8	14
4	Developing predictive hybridization models for phosphorothioate oligonucleotides using high-resolution melting. <i>PLoS ONE</i> , 2022, 17, e0268575.	2.5	1
5	High-Surety Isothermal Amplification and Detection of SARS-CoV-2. <i>MSphere</i> , 2021, 6, .	2.9	52
6	Minimizing Leakage in Stacked Strand Exchange Amplification Circuits. <i>ACS Synthetic Biology</i> , 2021, 10, 1277-1283.	3.8	3
7	Producing molecular biology reagents without purification. <i>PLoS ONE</i> , 2021, 16, e0252507.	2.5	9
8	One-Enzyme Reverse Transcription qPCR Using Taq DNA Polymerase. <i>Biochemistry</i> , 2020, 59, 4638-4645.	2.5	20
9	Dynamic Programming of a DNA Walker Controlled by Protons. <i>ACS Nano</i> , 2020, 14, 4007-4013.	14.6	78
10	Strand Displacement Probes Combined with Isothermal Nucleic Acid Amplification for Instrument-Free Detection from Complex Samples. <i>Analytical Chemistry</i> , 2018, 90, 6580-6586.	6.5	86
11	Portable platform for rapid in-field identification of human fecal pollution in water. <i>Water Research</i> , 2018, 131, 186-195.	11.3	37
12	Simultaneous Detection of Different Zika Virus Lineages via Molecular Computation in a Point-of-Care Assay. <i>Viruses</i> , 2018, 10, 714.	3.3	13
13	Direct nucleic acid analysis of mosquitoes for high fidelity species identification and detection of Wolbachia using a cellphone. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006671.	3.0	24
14	Phosphorothioated Primers Lead to Loop-Mediated Isothermal Amplification at Low Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 8290-8294.	6.5	73
15	Cellular reagents for diagnostics and synthetic biology. <i>PLoS ONE</i> , 2018, 13, e0201681.	2.5	17
16	Amplicon Competition Enables End-Point Quantitation of Nucleic Acids Following Isothermal Amplification. <i>ChemBioChem</i> , 2017, 18, 1692-1695.	2.6	16
17	Strand-Exchange Nucleic Acid Circuitry with Enhanced Thermo- and Structure- Buffering Abilities Turns Gene Diagnostics Ultra-Reliable and Environmental Compatible. <i>Scientific Reports</i> , 2016, 6, 36605.	3.3	16
18	Real-Time Sequence-Validated Loop-Mediated Isothermal Amplification Assays for Detection of Middle East Respiratory Syndrome Coronavirus (MERS-CoV). <i>PLoS ONE</i> , 2015, 10, e0123126.	2.5	122

#	ARTICLE	IF	CITATIONS
19	Design, Synthesis, and Application of Spinach Molecular Beacons Triggered by Strand Displacement. <i>Methods in Enzymology</i> , 2015, 550, 215-249.	1.0	8
20	A Sweet Spot for Molecular Diagnostics: Coupling Isothermal Amplification and Strand Exchange Circuits to Glucometers. <i>Scientific Reports</i> , 2015, 5, 11039.	3.3	66
21	Robust Strand Exchange Reactions for the Sequence-Specific, Real-Time Detection of Nucleic Acid Amplicons. <i>Analytical Chemistry</i> , 2015, 87, 3314-3320.	6.5	128
22	Mismatches Improve the Performance of Strand Displacement Nucleic Acid Circuits. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1845-1848.	13.8	164
23	Design and application of cotranscriptional non-enzymatic RNA circuits and signal transducers. <i>Nucleic Acids Research</i> , 2014, 42, e58-e58.	14.5	71
24	Exquisite allele discrimination by toehold hairpin primers. <i>Nucleic Acids Research</i> , 2014, 42, e120-e120.	14.5	8
25	G-quadruplex-generating polymerase chain reaction for visual colorimetric detection of amplicons. <i>Analytical Biochemistry</i> , 2014, 445, 38-40.	2.4	45
26	A Spinach molecular beacon triggered by strand displacement. <i>Rna</i> , 2014, 20, 1183-1194.	3.5	54
27	Real-Time Detection of Isothermal Amplification Reactions with Thermostable Catalytic Hairpin Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 7430-7433.	13.7	243
28	Ribozymes as Molecular Biology Reagents. , 2012, , 293-312.		0
29	Transduction of Oncogenes. , 2011, , 3754-3757.		0
30	Endogenous Retroviruses and Cancer. , 2010, , 119-162.		1
31	BALB/Mtv-Null Mice Responding to Strong Mouse Mammary Tumor Virus Superantigens Restrict Mammary Tumorigenesis. <i>Journal of Virology</i> , 2009, 83, 484-488.	3.4	8
32	Transduction of Oncogenes. , 2008, , 3029-3032.		0
33	Endogenous MMTV Proviruses Induce Susceptibility to Both Viral and Bacterial Pathogens. <i>PLoS Pathogens</i> , 2006, 2, e128.	4.7	21
34	Conversion of Mouse Mammary Tumor Virus to a Lymphomagenic Virus. <i>Journal of Virology</i> , 2005, 79, 12592-12596.	3.4	22
35	The Type B Leukemogenic Virus Truncated Superantigen Is Dispensable for T-Cell Lymphomagenesis. <i>Journal of Virology</i> , 2003, 77, 3866-3870.	3.4	27