Jimmy Gu

List of Publications by Year in descending order

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26 papers	1,081 citations	516710 16 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	887 citing authors

#	Article	IF	Citations
1	A DNAzyme Feedback Amplification Strategy for Biosensing. Angewandte Chemie - International Edition, 2017, 56, 6142-6146.	13.8	126
2	A DNAzymeâ€Based Colorimetric Paper Sensor for Helicobacter pylori. Angewandte Chemie - International Edition, 2019, 58, 9907-9911.	13.8	115
3	Targetâ€Induced and Equipmentâ€Free DNA Amplification with a Simple Paper Device. Angewandte Chemie - International Edition, 2016, 55, 2709-2713.	13.8	113
4	Highâ€Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wildâ€Type and B.1.1.7 SARSâ€CoVâ€2 in Unprocessed Saliva. Angewandte Chemie - International Edition, 2021, 60, 24266-24274.	13.8	101
5	Sequence-function relationships provide new insight into the cleavage site selectivity of the 8-17 RNA-cleaving deoxyribozyme. Nucleic Acids Research, 2008, 36, 1472-1481.	14.5	92
6	Diverse high-affinity DNA aptamers for wild-type and B.1.1.7 SARS-CoV-2 spike proteins from a pre-structured DNA library. Nucleic Acids Research, 2021, 49, 7267-7279.	14.5	77
7	Programming a topologically constrained DNA nanostructure into a sensor. Nature Communications, 2016, 7, 12074.	12.8	67
8	In vitro selection of small RNA-cleaving deoxyribozymes that cleave pyrimidineâ€“pyrimidine junctions. Nucleic Acids Research, 2008, 36, 4768-4777.	14.5	47
9	Targetâ€Induced and Equipmentâ€Free DNA Amplification with a Simple Paper Device. Angewandte Chemie, 2016, 128, 2759-2763.	2.0	38
10	A DNAzyme Feedback Amplification Strategy for Biosensing. Angewandte Chemie, 2017, 129, 6238-6242.	2.0	37
11	Selection and Characterization of an RNAâ€Cleaving DNAzyme Activated by Legionella pneumophila. Angewandte Chemie - International Edition, 2021, 60, 4782-4788.	13.8	32
12	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARSâ€CoVâ€2 Variants of Concern. Chemistry - A European Journal, 2022, 28, .	3.3	30
13	A DNAzymeâ€Based Colorimetric Paper Sensor for Helicobacter pylori. Angewandte Chemie, 2019, 131, 10012-10016.	2.0	29
14	Optimal DNA Templates for Rolling Circle Amplification Revealed by In Vitro Selection. Chemistry - A European Journal, 2015, 21, 8069-8074.	3.3	25
15	Evolution of a highly functional circular DNA aptamer in serum. Nucleic Acids Research, 2020, 48, 10680-10690.	14.5	24
16	Selection and Characterization of an RNAâ€Cleaving DNAzyme Activated by Legionella pneumophila. Angewandte Chemie, 2021, 133, 4832-4838.	2.0	23
17	Highâ€Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wildâ€Type and B.1.1.7 SARSâ€CoVâ€2 in Unprocessed Saliva. Angewandte Chemie, 2021, 133, 24468-24476.	2.0	21
18	A Highly Specific DNA Aptamer for RNase H2 from Clostridium difficile. ACS Applied Materials & Interfaces, 2021, 13, 9464-9471.	8.0	17

#	Article	IF	Citations
19	Aptamers for SARSâ€CoVâ€2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. Analysis & Sensing, 2022, 2, .	2.0	17
20	Evolution of an Enzyme from a Noncatalytic Nucleic Acid Sequence. Scientific Reports, 2015, 5, 11405.	3.3	15
21	Sequence Mutation and Structural Alteration Transform a Noncatalytic DNA Sequence into an Efficient RNA-Cleaving DNAzyme. Journal of Molecular Evolution, 2015, 81, 245-253.	1.8	9
22	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARSâ€CoVâ€2 Variants of Concern. Chemistry - A European Journal, 2022, 28, e202200524.	3.3	9
23	Investigation of discordant SARS-CoV-2 RT-PCR results using minimally processed saliva. Scientific Reports, 2022, 12, 2806.	3.3	7
24	A DNA Barcodeâ€Based Aptasensor Enables Rapid Testing of Porcine Epidemic Diarrhea Viruses in Swine Saliva Using Electrochemical Readout. Angewandte Chemie, 2022, 134, .	2.0	5
25	In Vitro Selection of New DNA Aptamers for Human Vascular Endothelial Growth Factor 165. ChemBioChem, 2020, 21, 2029-2036.	2.6	4
26	Titelbild: Targetâ€Induced and Equipmentâ€Free DNA Amplification with a Simple Paper Device (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10	2.0	1