

Hongquan Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

3,453
citations

26
h-index

55
g-index

55
ext. papers

4,161
ext. citations

9.5
avg, IF

5.64
L-index

#	Paper	IF	Citations
51	DNA-mediated homogeneous binding assays for nucleic acids and proteins. <i>Chemical Reviews</i> , 2013 , 113, 2812-41	68.1	328
50	A microRNA-initiated DNAzyme motor operating in living cells. <i>Nature Communications</i> , 2017 , 8, 14378	17.4	322
49	Binding-induced fluorescence turn-on assay using aptamer-functionalized silver nanocluster DNA probes. <i>Analytical Chemistry</i> , 2012 , 84, 5170-4	7.8	285
48	Myosin-X provides a motor-based link between integrins and the cytoskeleton. <i>Nature Cell Biology</i> , 2004 , 6, 523-31	23.4	284
47	Aptamer binding assays for proteins: the thrombin example--a review. <i>Analytica Chimica Acta</i> , 2014 , 837, 1-15	6.6	264
46	Molecular Diagnosis of COVID-19: Challenges and Research Needs. <i>Analytical Chemistry</i> , 2020 , 92, 10196-10209	7.8	155
45	Aptamers facilitating amplified detection of biomolecules. <i>Analytical Chemistry</i> , 2015 , 87, 274-92	7.8	142
44	Binding-Induced DNA Nanomachines Triggered by Proteins and Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14326-30	16.4	133
43	DNAzyme-Mediated Assays for Amplified Detection of Nucleic Acids and Proteins. <i>Analytical Chemistry</i> , 2018 , 90, 190-207	7.8	127
42	Exponential Isothermal Amplification of Nucleic Acids and Assays for Proteins, Cells, Small Molecules, and Enzyme Activities: An EXPAR Example. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11856-11866	16.4	124
41	Ultrasensitive assays for proteins. <i>Analyst, The</i> , 2007 , 132, 724-37	5	118
40	Assembling DNA through affinity binding to achieve ultrasensitive protein detection. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10698-705	16.4	115
39	A Target-Triggered DNAzyme Motor Enabling Homogeneous, Amplified Detection of Proteins. <i>Analytical Chemistry</i> , 2017 , 89, 12888-12895	7.8	92
38	Tunable aptamer capillary electrophoresis and its application to protein analysis. <i>Journal of the American Chemical Society</i> , 2008 , 130, 34-5	16.4	91
37	A molecular translator that acts by binding-induced DNA strand displacement for a homogeneous protein assay. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9317-20	16.4	90
36	Selection and analytical applications of aptamers binding microbial pathogens. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1587-1597	14.6	85
35	Signal Amplification in Living Cells: A Review of microRNA Detection and Imaging. <i>Analytical Chemistry</i> , 2020 , 92, 292-308	7.8	77

34	Isothermal Amplification and Ambient Visualization in a Single Tube for the Detection of SARS-CoV-2 Using Loop-Mediated Amplification and CRISPR Technology. <i>Analytical Chemistry</i> , 2020 , 92, 16204-16212	7.8	72
33	Binding-induced DNA assembly and its application to yoctomole detection of proteins. <i>Analytical Chemistry</i> , 2012 , 84, 877-84	7.8	63
32	Kindlin-2 is expressed in malignant mesothelioma and is required for tumor cell adhesion and migration. <i>International Journal of Cancer</i> , 2010 , 127, 1999-2008	7.5	50
31	Differentiation and detection of PDGF isomers and their receptors by tunable aptamer capillary electrophoresis. <i>Analytical Chemistry</i> , 2009 , 81, 7795-800	7.8	43
30	CRISPR technology incorporating amplification strategies: molecular assays for nucleic acids, proteins, and small molecules. <i>Chemical Science</i> , 2021 , 12, 4683-4698	9.4	40
29	Reduction of Background Generated from Template-Template Hybridizations in the Exponential Amplification Reaction. <i>Analytical Chemistry</i> , 2018 , 90, 11033-11039	7.8	33
28	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6773-6777	16.4	32
27	Assembly of multiple DNA components through target binding toward homogeneous, isothermally amplified, and specific detection of proteins. <i>Analytical Chemistry</i> , 2014 , 86, 7009-16	7.8	31
26	Glutathione-mediated detoxification of halobenzoquinone drinking water disinfection byproducts in T24 cells. <i>Toxicological Sciences</i> , 2014 , 141, 335-43	4.4	27
25	CRISPR/Cas12a-mediated gold nanoparticle aggregation for colorimetric detection of SARS-CoV-2. <i>Chemical Communications</i> , 2021 , 57, 6871-6874	5.8	24
24	Binding-Induced DNA Nanomachines Triggered by Proteins and Nucleic Acids. <i>Angewandte Chemie</i> , 2015 , 127, 14534-14538	3.6	21
23	Amplified binding-induced homogeneous assay through catalytic cycling of analyte for ultrasensitive protein detection. <i>Chemical Communications</i> , 2016 , 52, 1816-9	5.8	18
22	Binding-Induced DNA Dissociation Assay for Small Molecules: Sensing Aflatoxin B1. <i>ACS Sensors</i> , 2018 , 3, 2590-2596	9.2	16
21	Antibody-Bridged Beacon for Homogeneous Detection of Small Molecules. <i>Analytical Chemistry</i> , 2018 , 90, 9667-9672	7.8	13
20	FERM-containing protein FRMD5 is a p120-catenin interacting protein that regulates tumor progression. <i>FEBS Letters</i> , 2012 , 586, 3044-50	3.8	13
19	A Genome-Editing Nanomachine Constructed with a Clustered Regularly Interspaced Short Palindromic Repeats System and Activated by Near-Infrared Illumination. <i>ACS Nano</i> , 2020 , 14, 2817-2826 ^{16.7}	16.7	12
18	Yoctomole detection of proteins using solid phase binding-induced DNA assembly. <i>Methods</i> , 2013 , 64, 322-30	4.6	12
17	DNA-Assemblierung mittels Affinitätsbindung für die ultraempfindliche Proteindetektion. <i>Angewandte Chemie</i> , 2013 , 125, 10894-10902	3.6	12

16	Integrating Reverse Transcription Recombinase Polymerase Amplification with CRISPR Technology for the One-Tube Assay of RNA. <i>Analytical Chemistry</i> , 2021 , 93, 12808-12816	7.8	12
15	Quantitative synthesis of protein-DNA conjugates with 1 : 1 stoichiometry. <i>Chemical Communications</i> , 2018 , 54, 7491-7494	5.8	10
14	FERM domain-containing unconventional myosin VIIA interacts with integrin β subunit and regulates α β -mediated cell adhesion and migration. <i>FEBS Letters</i> , 2014 , 588, 2859-66	3.8	9
13	A Molecular Translator that Acts by Binding-Induced DNA Strand Displacement for a Homogeneous Protein Assay. <i>Angewandte Chemie</i> , 2012 , 124, 9451-9454	3.6	9
12	Metabolism of a Phenylarsenical in Human Hepatic Cells and Identification of a New Arsenic Metabolite. <i>Environmental Science & Technology</i> , 2018 , 52, 1386-1392	10.3	8
11	Binding-Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11104-11109	16.4	8
10	Unconventional myosin VIIA promotes melanoma progression. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	6
9	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. <i>Angewandte Chemie</i> , 2017 , 129, 6877-6881	3.6	4
8	Skin inflammation and psoriasis may be linked to exposure of ultrafine carbon particles. <i>Journal of Environmental Sciences</i> , 2020 , 96, 206-208	6.4	4
7	Die exponentielle isotherme Amplifikation von Nukleinsäuren und Assays zur Detektion von Proteinen, Zellen, kleinen Molekülen und Enzymaktivitäten: Anwendungen für EXPAR. <i>Angewandte Chemie</i> , 2018 , 130, 12030-12041	3.6	3
6	Elevated 5-hydroxymethylcytosine and cell apoptosis induced by tetrachloro-1,4-benzoquinone in mouse embryonic stem cells. <i>Journal of Environmental Sciences</i> , 2017 , 51, 1-4	6.4	1
5	Titelbild: Methylated Phenylarsenical Metabolites Discovered in Chicken Liver (Angew. Chem. 24/2017). <i>Angewandte Chemie</i> , 2017 , 129, 6779-6779	3.6	1
4	Beacon-mediated exponential amplification reaction (BEAR) using a single enzyme and primer. <i>Chemical Communications</i> , 2019 , 55, 10677-10680	5.8	1
3	Split Locations and Secondary Structures of a DNAzyme Critical to Binding-Assembled Multicomponent Nucleic Acid Enzymes for Protein Detection. <i>Analytical Chemistry</i> , 2021 , 93, 15712-15719	7.8	1
2	Mesopore Materialien in der Peptidomanalyse. <i>Angewandte Chemie</i> , 2012 , 124, 3576-3577	3.6	
1	Binding-Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. <i>Angewandte Chemie</i> , 2021 , 133, 11204-11209	3.6	