Zijie Zhang

List of Publications by Year
in descending order

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36 papers	2,342 citations	257450 24 h-index	361022 35 g-index
37 all docs	37 docs citations	37 times ranked	2476 citing authors

#	Article	IF	Citations
1	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
2	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
3	DNAzyme-Immobilizing Microgel Magnetic Beads Enable Rapid, Specific, Culture-Free, and Wash-Free Electrochemical Quantification of Bacteria in Untreated Urine. ACS Sensors, 2022, 7, 985-994.	7.8	29
4	Aptamers for SARSâ€CoVâ€2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. Analysis & Sensing, 2022, 2, .	2.0	17
5	One Solution for All: Searching for Universal Aptamers for Constantly Mutating Spike Proteins of SARSâ€CoVâ€2. ChemMedChem, 2022, 17, .	3.2	7
6	A DNA Barcodeâ€Based Aptasensor Enables Rapid Testing of Porcine Epidemic Diarrhea Viruses in Swine Saliva Using Electrochemical Readout. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
7	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
8	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
9	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
10	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
11	Incorporation of Boronic Acid into Aptamer-Based Molecularly Imprinted Hydrogels for Highly Specific Recognition of Adenosine. ACS Applied Bio Materials, 2020, 3, 2568-2576.	4.6	20
12	Dopamine and Melamine Binding to Gold Nanoparticles Dominates Their Aptamer-Based Label-Free Colorimetric Sensing. Analytical Chemistry, 2020, 92, 9370-9378.	6.5	111
13	Solving the H2O2 by-product problem using a catalase-mimicking nanozyme cascade to enhance glycolic acid oxidase. Chemical Engineering Journal, 2020, 388, 124249.	12.7	49
14	Gold nanoparticles as dehydrogenase mimicking nanozymes for estradiol degradation. Chinese Chemical Letters, 2019, 30, 1655-1658.	9.0	33
15	Adsorption of DNA Oligonucleotides by Boronic Acid-Functionalized Hydrogel Nanoparticles. Langmuir, 2019, 35, 13727-13734.	3.5	14
16	Adsorption of Arsenite on Gold Nanoparticles Studied with DNA Oligonucleotide Probes. Langmuir, 2019, 35, 7304-7311.	3.5	49
17	Molecularly imprinted nanozymes with faster catalytic activity and better specificity. Nanoscale, 2019, 11, 4854-4863.	5.6	69
18	Nucleotide and DNA coordinated lanthanides: From fundamentals to applications. Coordination Chemistry Reviews, 2019, 387, 235-248.	18.8	54

#	Article	IF	Citations
19	Molecular Imprinting with Functional DNA. Small, 2019, 15, e1805246.	10.0	53
20	Robust Hydrogels from Lanthanide Nucleotide Coordination with Evolving Nanostructures for a Highly Stable Protein Encapsulation. ACS Applied Materials & Interfaces, 2018, 10, 14321-14330.	8.0	40
21	An engineered one-site aptamer with higher sensitivity for label-free detection of adenosine on graphene oxide. Canadian Journal of Chemistry, 2018, 96, 957-963.	1.1	10
22	Nucleotide coordination with 14 lanthanides studied by isothermal titration calorimetry. Chinese Chemical Letters, 2018, 29, 151-156.	9.0	28
23	Interfacing DNA Oligonucleotides with Calcium Phosphate and Other Metal Phosphates. Langmuir, 2018, 34, 14975-14982.	3.5	19
24	Continuously Tunable Nucleotide/Lanthanide Coordination Nanoparticles for DNA Adsorption and Sensing. ACS Omega, 2018, 3, 9043-9051.	3.5	26
25	Intracellular delivery of a molecularly imprinted peroxidase mimicking DNAzyme for selective oxidation. Materials Horizons, 2018, 5, 738-744.	12.2	44
26	Kinetic Discrimination of Metal Ions Using DNA for Highly Sensitive and Selective Cr³⁺ Detection. ACS Sensors, 2017, 2, 663-669.	7.8	33
27	New insights into a classic aptamer: binding sites, cooperativity and more sensitive adenosine detection. Nucleic Acids Research, 2017, 45, 7593-7601.	14.5	131
28	Molecular Imprinting on Inorganic Nanozymes for Hundred-fold Enzyme Specificity. Journal of the American Chemical Society, 2017, 139, 5412-5419.	13.7	522
29	Molecular Imprinting for Substrate Selectivity and Enhanced Activity of Enzyme Mimics. Small, 2017, 13, 1602730.	10.0	59
30	Multicopper Laccase Mimicking Nanozymes with Nucleotides as Ligands. ACS Applied Materials & Interfaces, 2017, 9, 1352-1360.	8.0	319
31	A Cell-Mimicking Structure Converting Analog Volume Changes to Digital Colorimetric Output with Molecular Selectivity. Nano Letters, 2017, 17, 7926-7931.	9.1	33
32	Co-immobilization of multiple enzymes by metal coordinated nucleotide hydrogel nanofibers: improved stability and an enzyme cascade for glucose detection. Nanoscale, 2016, 8, 6071-6078.	5.6	141
33	Molecularly Imprinted Polymers with DNA Aptamer Fragments as Macromonomers. ACS Applied Materials & Interfaces, 2016, 8, 6371-6378.	8.0	63
34	Improving molecularly imprinted nanogels by pH modulation. RSC Advances, 2015, 5, 91018-91025.	3.6	6
35	Self-healing metal-coordinated hydrogels using nucleotide ligands. Chemical Communications, 2015, 51, 15196-15199.	4.1	101
36	Aptamers for SARSâ€CoVâ€2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. Analysis & Sensing, 0, , .	2.0	5