

Zijie Zhang

List of Publications by Year in descending order

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36
papers

2,342
citations

257450

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37
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37
docs citations

37
times ranked

2476
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Imprinting on Inorganic Nanozymes for Hundred-fold Enzyme Specificity. <i>Journal of the American Chemical Society</i> , 2017, 139, 5412-5419.	13.7	522
2	Multicopper Laccase Mimicking Nanozymes with Nucleotides as Ligands. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1352-1360.	8.0	319
3	Co-immobilization of multiple enzymes by metal coordinated nucleotide hydrogel nanofibers: improved stability and an enzyme cascade for glucose detection. <i>Nanoscale</i> , 2016, 8, 6071-6078.	5.6	141
4	New insights into a classic aptamer: binding sites, cooperativity and more sensitive adenosine detection. <i>Nucleic Acids Research</i> , 2017, 45, 7593-7601.	14.5	131
5	Dopamine and Melamine Binding to Gold Nanoparticles Dominates Their Aptamer-Based Label-Free Colorimetric Sensing. <i>Analytical Chemistry</i> , 2020, 92, 9370-9378.	6.5	111
6	Self-healing metal-coordinated hydrogels using nucleotide ligands. <i>Chemical Communications</i> , 2015, 51, 15196-15199.	4.1	101
7	High Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wild-type and B.1.1.7 SARS-CoV-2 in Unprocessed Saliva. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24266-24274.	13.8	101
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. <i>Nucleic Acids Research</i> , 2021, 49, 7267-7279.	14.5	77
9	Molecularly imprinted nanozymes with faster catalytic activity and better specificity. <i>Nanoscale</i> , 2019, 11, 4854-4863.	5.6	69
10	Molecularly Imprinted Polymers with DNA Aptamer Fragments as Macromonomers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6371-6378.	8.0	63
11	Molecular Imprinting for Substrate Selectivity and Enhanced Activity of Enzyme Mimics. <i>Small</i> , 2017, 13, 1602730.	10.0	59
12	Nucleotide and DNA coordinated lanthanides: From fundamentals to applications. <i>Coordination Chemistry Reviews</i> , 2019, 387, 235-248.	18.8	54
13	Molecular Imprinting with Functional DNA. <i>Small</i> , 2019, 15, e1805246.	10.0	53
14	Adsorption of Arsenite on Gold Nanoparticles Studied with DNA Oligonucleotide Probes. <i>Langmuir</i> , 2019, 35, 7304-7311.	3.5	49
15	Solving the H ₂ O ₂ by-product problem using a catalase-mimicking nanozyme cascade to enhance glycolic acid oxidase. <i>Chemical Engineering Journal</i> , 2020, 388, 124249.	12.7	49
16	Intracellular delivery of a molecularly imprinted peroxidase mimicking DNAzyme for selective oxidation. <i>Materials Horizons</i> , 2018, 5, 738-744.	12.2	44
17	Robust Hydrogels from Lanthanide Nucleotide Coordination with Evolving Nanostructures for a Highly Stable Protein Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14321-14330.	8.0	40
18	Kinetic Discrimination of Metal Ions Using DNA for Highly Sensitive and Selective Cr ³⁺ Detection. <i>ACS Sensors</i> , 2017, 2, 663-669.	7.8	33

#	ARTICLE	IF	CITATIONS
19	A Cell-Mimicking Structure Converting Analog Volume Changes to Digital Colorimetric Output with Molecular Selectivity. <i>Nano Letters</i> , 2017, 17, 7926-7931.	9.1	33
20	Gold nanoparticles as dehydrogenase mimicking nanozymes for estradiol degradation. <i>Chinese Chemical Letters</i> , 2019, 30, 1655-1658.	9.0	33
21	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARS-CoV-2 Variants of Concern. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	30
22	DNAzyme-Immobilizing Microgel Magnetic Beads Enable Rapid, Specific, Culture-Free, and Wash-Free Electrochemical Quantification of Bacteria in Untreated Urine. <i>ACS Sensors</i> , 2022, 7, 985-994.	7.8	29
23	Nucleotide coordination with 14 lanthanides studied by isothermal titration calorimetry. <i>Chinese Chemical Letters</i> , 2018, 29, 151-156.	9.0	28
24	Continuously Tunable Nucleotide/Lanthanide Coordination Nanoparticles for DNA Adsorption and Sensing. <i>ACS Omega</i> , 2018, 3, 9043-9051.	3.5	26
25	High-Affinity Dimeric Aptamers Enable the Rapid Electrochemical Detection of Wild-Type and B.1.1.7 SARS-CoV-2 in Unprocessed Saliva. <i>Angewandte Chemie</i> , 2021, 133, 24468-24476.	2.0	21
26	Incorporation of Boronic Acid into Aptamer-Based Molecularly Imprinted Hydrogels for Highly Specific Recognition of Adenosine. <i>ACS Applied Bio Materials</i> , 2020, 3, 2568-2576.	4.6	20
27	Interfacing DNA Oligonucleotides with Calcium Phosphate and Other Metal Phosphates. <i>Langmuir</i> , 2018, 34, 14975-14982.	3.5	19
28	Aptamers for SARS-CoV-2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. <i>Analysis & Sensing</i> , 2022, 2, .	2.0	17
29	Adsorption of DNA Oligonucleotides by Boronic Acid-Functionalized Hydrogel Nanoparticles. <i>Langmuir</i> , 2019, 35, 13727-13734.	3.5	14
30	A DNA Barcode-Based Aptasensor Enables Rapid Testing of Porcine Epidemic Diarrhea Viruses in Swine Saliva Using Electrochemical Readout. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
31	An engineered one-site aptamer with higher sensitivity for label-free detection of adenosine on graphene oxide. <i>Canadian Journal of Chemistry</i> , 2018, 96, 957-963.	1.1	10
32	A Universal DNA Aptamer that Recognizes Spike Proteins of Diverse SARS-CoV-2 Variants of Concern. <i>Chemistry - A European Journal</i> , 2022, 28, e202200524.	3.3	9
33	One Solution for All: Searching for Universal Aptamers for Constantly Mutating Spike Proteins of SARS-CoV-2. <i>ChemMedChem</i> , 2022, 17, .	3.2	7
34	Improving molecularly imprinted nanogels by pH modulation. <i>RSC Advances</i> , 2015, 5, 91018-91025.	3.6	6
35	A DNA Barcode-Based Aptasensor Enables Rapid Testing of Porcine Epidemic Diarrhea Viruses in Swine Saliva Using Electrochemical Readout. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
36	Aptamers for SARS-CoV-2: Isolation, Characterization, and Diagnostic and Therapeutic Developments. <i>Analysis & Sensing</i> , 0, , .	2.0	5