

Po-Jung Jimmy Huang

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,562
citations

136950

32
h-index

189892

50
g-index

57
all docs

57
docs citations

57
times ranked

2423
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Beacon Lighting up on Graphene Oxide. <i>Analytical Chemistry</i> , 2012, 84, 4192-4198.	6.5	154
2	Rational evolution of Cd ²⁺ -specific DNAzymes with phosphorothioate modified cleavage junction and Cd ²⁺ sensing. <i>Nucleic Acids Research</i> , 2015, 43, 6125-6133.	14.5	136
3	Ultrasensitive DNAzyme Beacon for Lanthanides and Metal Speciation. <i>Analytical Chemistry</i> , 2014, 86, 1816-1821.	6.5	133
4	DNA Length-Dependent Fluorescence Signaling on Graphene Oxide Surface. <i>Small</i> , 2012, 8, 977-983.	10.0	131
5	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. <i>Langmuir</i> , 2016, 32, 10776-10783.	3.5	123
6	Sensing Parts-per-Trillion Cd ²⁺ , Hg ²⁺ , and Pb ²⁺ Collectively and Individually Using Phosphorothioate DNAzymes. <i>Analytical Chemistry</i> , 2014, 86, 5999-6005.	6.5	102
7	Flow Cytometry-Assisted Detection of Adenosine in Serum with an Immobilized Aptamer Sensor. <i>Analytical Chemistry</i> , 2010, 82, 4020-4026.	6.5	94
8	An Ultrasensitive Light-up Cu ²⁺ Biosensor Using a New DNAzyme Cleaving a Phosphorothioate-Modified Substrate. <i>Analytical Chemistry</i> , 2016, 88, 3341-3347.	6.5	94
9	In Vitro Selection of a New Lanthanide-Dependent DNAzyme for Ratiometric Sensing Lanthanides. <i>Analytical Chemistry</i> , 2014, 86, 9993-9999.	6.5	82
10	A DNAzyme requiring two different metal ions at two distinct sites. <i>Nucleic Acids Research</i> , 2016, 44, 354-363.	14.5	80
11	A new heavy lanthanide-dependent DNAzyme displaying strong metal cooperativity and unrescuable phosphorothioate effect. <i>Nucleic Acids Research</i> , 2015, 43, 461-469.	14.5	75
12	Cleavable Molecular Beacon for Hg ²⁺ Detection Based on Phosphorothioate RNA Modifications. <i>Analytical Chemistry</i> , 2015, 87, 6890-6895.	6.5	67
13	DNA Adsorption by ZnO Nanoparticles near Its Solubility Limit: Implications for DNA Fluorescence Quenching and DNAzyme Activity Assays. <i>Langmuir</i> , 2016, 32, 5672-5680.	3.5	63
14	An Exceptionally Selective DNA Cooperatively Binding Two Ca ²⁺ Ions. <i>ChemBioChem</i> , 2017, 18, 518-522.	2.6	63
15	G-Quadruplex DNA for Fluorescent and Colorimetric Detection of Thallium(I). <i>ACS Sensors</i> , 2016, 1, 137-143.	7.8	61
16	Nanoceria as a DNase I mimicking nanozyme. <i>Chemical Communications</i> , 2019, 55, 13215-13218.	4.1	61
17	Sensing Adenosine and ATP by Aptamers and Gold Nanoparticles: Opposite Trends of Color Change from Domination of Target Adsorption Instead of Aptamer Binding. <i>ACS Sensors</i> , 2020, 5, 2885-2893.	7.8	59
18	Synergistic pH effect for reversible shuttling aptamer-based biosensors between graphene oxide and target molecules. <i>Journal of Materials Chemistry</i> , 2011, 21, 8991.	6.7	57

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19	DNAzyme Hybridization, Cleavage, Degradation, and Sensing in Undiluted Human Blood Serum. <i>Analytical Chemistry</i> , 2015, 87, 4001-4007.	6.5	52
20	Separation of Short Single- and Double-Stranded DNA Based on Their Adsorption Kinetics Difference on Graphene Oxide. <i>Nanomaterials</i> , 2013, 3, 221-228.	4.1	51
21	Dissecting the Effect of Salt for More Sensitive Label-Free Colorimetric Detection of DNA Using Gold Nanoparticles. <i>Analytical Chemistry</i> , 2020, 92, 13354-13360.	6.5	50
22	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg ²⁺ detection. <i>Biosensors and Bioelectronics</i> , 2016, 79, 244-250.	10.1	46
23	Glutathione-s-transferase modified electrodes for detecting anticancer drugs. <i>Biosensors and Bioelectronics</i> , 2014, 58, 232-236.	10.1	44
24	Distinction of Individual Lanthanide Ions with a DNAzyme Beacon Array. <i>ACS Sensors</i> , 2016, 1, 732-738.	7.8	44
25	Graphene oxide surface blocking agents can increase the DNA biosensor sensitivity. <i>Biotechnology Journal</i> , 2016, 11, 780-787.	3.5	43
26	Target Self-Enhanced Selectivity in Metal-Specific DNAzymes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3573-3577.	13.8	43
27	Label-free and Dye-free Fluorescent Sensing of Tetracyclines Using a Capture-Selected DNA Aptamer. <i>Analytical Chemistry</i> , 2022, 94, 10175-10182.	6.5	40
28	<i>In Vitro</i> Selection of a DNAzyme Cooperatively Binding Two Lanthanide Ions for RNA Cleavage. <i>Biochemistry</i> , 2016, 55, 2518-2525.	2.5	38
29	Selection of Aptamers for Sensing Caffeine and Discrimination of Its Three Single Demethylated Analogues. <i>Analytical Chemistry</i> , 2022, 94, 3142-3149.	6.5	37
30	Biochemical Characterization of a Lanthanide-Dependent DNAzyme with Normal and Phosphorothioate-Modified Substrates. <i>Biochemistry</i> , 2015, 54, 6132-6138.	2.5	36
31	Selection of a metal ligand modified DNAzyme for detecting Ni ²⁺ . <i>Biosensors and Bioelectronics</i> , 2020, 165, 112285.	10.1	34
32	Hg ²⁺ detection using a phosphorothioate RNA probe adsorbed on graphene oxide and a comparison with thymine-rich DNA. <i>Analyst</i> , 2016, 141, 3788-3793.	3.5	32
33	Immobilization of DNA on Magnetic Microparticles for Mercury Enrichment and Detection with Flow Cytometry. <i>Chemistry - A European Journal</i> , 2011, 17, 5004-5010.	3.3	31
34	Liposome/Graphene Oxide Interaction Studied by Isothermal Titration Calorimetry. <i>Langmuir</i> , 2016, 32, 2458-2463.	3.5	30
35	Good's buffers have various affinities to gold nanoparticles regulating fluorescent and colorimetric DNA sensing. <i>Chemical Science</i> , 2020, 11, 6795-6804.	7.4	30
36	Desulfurization Activated Phosphorothioate DNAzyme for the Detection of Thallium. <i>Analytical Chemistry</i> , 2015, 87, 10443-10449.	6.5	28

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37	In vitro Selection of Chemically Modified DNAzymes. <i>ChemistryOpen</i> , 2020, 9, 1046-1059.	1.9	28
38	Inhibiting the VIM-2 Metallo- β -Lactamase by Graphene Oxide and Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9898-9903.	8.0	25
39	Two Pb ²⁺ -specific DNAzymes with opposite trends in split-site-dependent activity. <i>Chemical Communications</i> , 2014, 50, 4442.	4.1	21
40	Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. <i>Nucleic Acids Research</i> , 2018, 46, 10262-10271.	14.5	21
41	The Two Classic Pb ²⁺ -Selective DNAzymes Are Related: Rational Evolution for Understanding Metal Selectivity. <i>ChemBioChem</i> , 2020, 21, 1293-1297.	2.6	16
42	Sensitivity of a classic DNAzyme for Pb ²⁺ modulated by cations, anions and buffers. <i>Analyst</i> , 2020, 145, 1384-1388.	3.5	14
43	Functional nucleic acids for detecting bacteria. <i>Reviews in Analytical Chemistry</i> , 2013, 32, 77-89.	3.2	12
44	Degradable starch nanoparticle assisted ethanol precipitation of DNA. <i>Carbohydrate Polymers</i> , 2014, 110, 354-359.	10.2	11
45	Target Self-Enhanced Selectivity in Metal-Specific DNAzymes. <i>Angewandte Chemie</i> , 2020, 132, 3601-3605.	2.0	10
46	Signaling Kinetics of DNA and Aptamer Biosensors Revealing Graphene Oxide Surface Heterogeneity. <i>Journal of Analysis and Testing</i> , 2022, 6, 20-27.	5.1	10
47	2-Aminopurine Fluorescence Spectroscopy for Probing a Glucose Binding Aptamer. <i>ChemBioChem</i> , 2022, 23, .	2.6	8
48	Reselection Yielding a Smaller and More Active Silver-Specific DNAzyme. <i>ACS Omega</i> , 2018, 3, 15174-15181.	3.5	6
49	Probing Metal-Dependent Phosphate Binding for the Catalysis of the 17E DNAzyme. <i>Biochemistry</i> , 2021, 60, 1909-1918.	2.5	6
50	Homogeneous assays for aptamer-based ethanolamine sensing: no indication of target binding. <i>Analyst</i> , 2022, 147, 1348-1356.	3.5	6
51	Adsorption of DNA Oligonucleotides by Self-Assembled Metalloporphyrin Nanomaterials. <i>Langmuir</i> , 2022, 38, 3553-3560.	3.5	6
52	Phosphorothioate DNA Mediated Sequence-Insensitive Etching and Ripening of Silver Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 198.	3.6	5
53	Instantaneous Iodine-Assisted DNAzyme Cleavage of Phosphorothioate RNA. <i>Biochemistry</i> , 2019, 58, 422-429.	2.5	5
54	In vitro selection and application of lanthanide-dependent DNAzymes. <i>Methods in Enzymology</i> , 2021, 651, 373-396.	1.0	4

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55	Graphene oxide as a cartridge enable on-line assembly of photosensitizer for IO ₂ -based electrochemical aptasensing. <i>Mikrochimica Acta</i> , 2020, 187, 477.	5.0	3
56	Sensing Metal Ions with Phosphorothioate-Modified DNAzymes. <i>Methods in Molecular Biology</i> , 2022, 2439, 277-289.	0.9	0