

Toshihiro Ihara

List of Publications by Year in descending order

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51
papers

1,009
citations

471509

17
h-index

434195

31
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all docs

51
docs citations

51
times ranked

936
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Ion-Directed Specific DNA Structures and Their Functions. <i>Life</i> , 2022, 12, 686.	2.4	4
2	Fabrication of Three-Dimensionally Deformable Metal Structures Using Precision Electroforming. <i>Micromachines</i> , 2022, 13, 1046.	2.9	2
3	Small molecule-based detection of non-canonical RNA G-quadruplex structures that modulate protein translation. <i>Nucleic Acids Research</i> , 2022, 50, 8143-8153.	14.5	5
4	Catalytic Amplification of Electrochemical Signal in Homogeneous Solution Using an Entropy-driven DNA Circuit. <i>Analytical Sciences</i> , 2021, 37, 533-537.	1.6	3
5	Cysteine Hydropersulfide Inactivates β -Lactam Antibiotics with Formation of Ring-Opened Carbothioic S-Acids in Bacteria. <i>ACS Chemical Biology</i> , 2021, 16, 731-739.	3.4	16
6	Cooperative recognition of a repetitive sequence through consecutive formation of triplex and duplex structures. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 97-108.	1.1	1
7	Detection of prostate-specific antigen in semen using DNA aptamers: an application of nucleic acid aptamers in forensic body fluid identification. <i>Analytical Methods</i> , 2020, 12, 2703-2709.	2.7	5
8	G-quadruplexes in mRNA: A key structure for biological function. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 261-266.	2.1	23
9	Catalytic formation of luminescent lanthanide complexes using an entropy-driven DNA circuit. <i>Chemical Communications</i> , 2020, 56, 3863-3866.	4.1	7
10	Electrochemical Molecular Beacon for Nucleic Acid Sensing in a Homogeneous Solution. <i>Analytical Sciences</i> , 2020, 36, 959-964.	1.6	6
11	Xylitol Separation from a Polyol Mixture Using Lanthanide Ion-loaded Resins. <i>Analytical Sciences</i> , 2020, 36, 769-773.	1.6	2
12	A RuO ₂ Nanosheet as a Novel Quencher-free Platform for the Detection of Nucleic Acids in a Homogeneous Solution. <i>Analytical Sciences</i> , 2020, 36, 397-400.	1.6	1
13	A novel cholinesterase assay for the evaluation of neurotoxin poisoning based on the electron-transfer promotion effect of thiocholine on an Au electrode. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126893.	7.8	9
14	Catalytic Formation of Luminescent Complex Clusters Based on Autonomous Strand Exchange Reaction of DNA. <i>ACS Applied Bio Materials</i> , 2019, 2, 2988-2993.	4.6	8
15	Simple Electrochemical Method for the On-site Detection of Neurotoxins. <i>Bunseki Kagaku</i> , 2019, 68, 911-923.	0.2	0
16	Electrochemical Sensing of Neurotoxic Agents Based on Their Electron Transfer Promotion Effect on an Au Electrode. <i>Analytical Chemistry</i> , 2017, 89, 5742-5747.	6.5	12
17	Sensitive Electrochemical Detection of Nereistoxin by Reductive Desorption from Au(111) and Au(100). <i>Electrochemistry</i> , 2016, 84, 349-353.	1.4	4
18	Metal ion-directed dynamic splicing of DNA through global conformational change by intramolecular complexation. <i>Nature Communications</i> , 2015, 6, 6640.	12.8	18

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19	Alteration of DNAzyme Activity by Silver Ion. <i>Chemistry Letters</i> , 2014, 43, 1020-1022.	1.3	9
20	Rational Design for Cooperative Recognition of Specific Nucleobases Using β -Cyclodextrin-Modified DNAs and Fluorescent Ligands on DNA and RNA Scaffolds. <i>Chemistry - A European Journal</i> , 2013, 19, 10526-10535.	3.3	12
21	Versatile allosteric molecular devices based on reversible formation of luminous lanthanide complexes. <i>Chemical Communications</i> , 2013, 49, 285-287.	4.1	15
22	DNA Recognition and Analysis Through Cooperative Metal-ion Complex Formation of Split Probes. <i>Bunseki Kagaku</i> , 2012, 61, 193-206.	0.2	1
23	Electrochemical signal modulation in homogeneous solutions using the formation of an inclusion complex between ferrocene and β -cyclodextrin on a DNA scaffold. <i>Chemical Communications</i> , 2011, 47, 12388.	4.1	25
24	DNA Analysis Based on the Local Structural Disruption to the Duplexes Carrying a Luminous Lanthanide Complex. <i>Analytical Sciences</i> , 2011, 27, 585.	1.6	10
25	Reversible circularization of an anthracene-modified DNA conjugate through bimolecular triplex formation and its analytical application. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4843.	2.8	22
26	Photodimerisation of anthracenes using a DNA template and its analytical applications. <i>Supramolecular Chemistry</i> , 2009, 21, 292-295.	1.2	11
27	Interaction of silver ion with CG.C+ base triplets in DNA triplex. <i>Nucleic Acids Symposium Series</i> , 2009, 53, 19-20.	0.3	1
28	Silver Ion Unusually Stabilizes the Structure of a Parallel-Motif DNA Triplex. <i>Journal of the American Chemical Society</i> , 2009, 131, 3826-3827.	13.7	133
29	Cooperative DNA Probing Using a β -Cyclodextrin~DNA Conjugate and a Nucleobase-Specific Fluorescent Ligand. <i>Journal of the American Chemical Society</i> , 2009, 131, 1386-1387.	13.7	82
30	DNA conjugates bearing a ferrocenyl group in backbone and their electrochemical behaviour. <i>Supramolecular Chemistry</i> , 2009, 21, 207-217.	1.2	9
31	Anthracene~DNA conjugates as building blocks of designed DNA structures constructed by photochemical reactions. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1349.	2.8	31
32	Template-directed formation of luminescent lanthanide complexes: Versatile tools for colorimetric identification of single nucleotide polymorphism. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1921-1931.	3.5	50
33	Metalloregulation of Triple Helix Formation by Control of the Loop Conformation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 1084-1096.	1.1	8
34	Homogeneous DNA-detection Based on the Non-enzymatic Reactions Promoted by Target DNA. <i>Analytical Sciences</i> , 2007, 23, 625-629.	1.6	16
35	Colorimetric allele typing through cooperative binding of DNA probes carrying a metal chelator for luminescent lanthanide ions. <i>Analytical Biochemistry</i> , 2006, 359, 259-261.	2.4	24
36	Colorimetric multiplexed immunoassay using specific aggregation of antigenic peptide-modified luminous nanoparticles. <i>Analytica Chimica Acta</i> , 2006, 578, 11-18.	5.4	17

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37	Metal ion-directed cooperative DNA binding of small molecules. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1744-1754.	3.5	21
38	DNA-templated Cooperative Formation of the Luminous Lanthanide Complex and Its Analytical Application to Gene Detection. <i>Chemistry Letters</i> , 2005, 34, 1606-1607.	1.3	26
39	Photochemical ligation between anthracene-DNA conjugates and its analytical application to gene analysis. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 41-42.	0.3	1
40	Asymmetric cooperativity in tandem hybridization of the DNA conjugates bearing chiral metal complexes. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 229-230.	0.3	1
41	Asymmetric cooperativity in tandem hybridization of enantiomeric metal complex-tethered short fluorescent DNA probes. <i>Chemical Communications</i> , 2005, , 4523.	4.1	19
42	Cooperative hybridization of DNA conjugates and its analytical application. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 125-126.	0.3	0
43	Preparation of DNA-modified nanoparticles and preliminary study for colorimetric SNP analysis using their selective aggregations. <i>Nucleic Acids Research</i> , 2004, 32, e105-e105.	14.5	21
44	Photochemical Ligation of DNA Conjugates through Anthracene Cyclodimer Formation and Its Fidelity to the Template Sequences. <i>Journal of the American Chemical Society</i> , 2004, 126, 8880-8881.	13.7	79
45	Metal ion-directed outside binding of small DNA ligand. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 85-86.	0.3	3
46	Colorimetric SNP analysis using oligonucleotide-modified nanoparticles Electronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b206158a/ . <i>Chemical Communications</i> , 2002, , 2152-2153.	4.1	14
47	Metal Ion-Directed Cooperative Triple Helix Formation of Glutamic Acid ⁻ Oligonucleotide Conjugate. <i>Journal of the American Chemical Society</i> , 2001, 123, 1772-1773.	13.7	33
48	METAL ION SELECTIVITY OF MACRORETICULAR CHELATING CATION EXCHANGE RESINS WITH PHOSPHONIC ACID GROUPS ATTACHED TO PHENYL GROUPS OF A STYRENE-DIVINYLBENZENE COPOLYMER MATRIX. <i>Separation Science and Technology</i> , 2001, 36, 3511-3528.	2.5	29
49	An Affinity Capillary Electrophoresis for the Detection of Gene Mutation Using Immobilized Oligonucleotides-Polyacrylamide Conjugate.. <i>Analytical Sciences</i> , 1999, 15, 389-392.	1.6	11
50	Development of New Technique to Separate DNA Related Molecules on Affinity Capillary Electrophoresis.. <i>Analytical Sciences</i> , 1997, 13, 501-504.	1.6	3
51	Gene sensor using ferrocenyl oligonucleotide. <i>Chemical Communications</i> , 1997, , 1609-1610.	4.1	146