

Takashi Hayashita

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7786392/publications.pdf>

Version: 2024-02-01

61
papers

1,249
citations

516710

16
h-index

377865

34
g-index

62
all docs

62
docs citations

62
times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	Boronic Acid Fluorophore/ β^2 -Cyclodextrin Complex Sensors for Selective Sugar Recognition in Water. <i>Analytical Chemistry</i> , 2001, 73, 1530-1536.	6.5	157
2	Benzo-15-crown-5 Fluoroionophore/ β^3 -Cyclodextrin Complex with Remarkably High Potassium Ion Sensitivity and Selectivity in Water. <i>Journal of the American Chemical Society</i> , 1999, 121, 2319-2320.	13.7	116
3	Selective Potassium Ion Recognition by Benzo-15-crown-5 Fluoroionophore/ β^3 -Cyclodextrin Complex Sensors in Water. <i>Analytical Chemistry</i> , 2000, 72, 5841-5846.	6.5	99
4	Anion Sensing by a Thiourea Based Chromoionophore via Hydrogen Bonding.. <i>Analytical Sciences</i> , 1998, 14, 595-597.	1.6	91
5	Selective glucose recognition by boronic acid azoprobe/ β^3 -cyclodextrin complexes in water. <i>Chemical Communications</i> , 2009, , 1709.	4.1	70
6	Highly selective recognition of lead ion in water by a podand fluoroionophore/ β^3 -cyclodextrin complex sensor. <i>Chemical Communications</i> , 2003, , 2160-2161.	4.1	67
7	Positioning dependent anion recognition by thiourea-based chromoionophores via hydrogen bonding in aqueous vesicle solutions. <i>Chemical Communications</i> , 2000, , 755-756.	4.1	56
8	Glucose Recognition by a Supramolecular Complex of Boronic Acid Fluorophore with Boronic Acid-Modified Cyclodextrin in Water. <i>Analytical Sciences</i> , 2012, 28, 121-126.	1.6	45
9	Development of Supramolecular Saccharide Sensors Based on Cyclodextrin Complexes and Self-assembling Systems. <i>Chemical and Pharmaceutical Bulletin</i> , 2017, 65, 318-325.	1.3	43
10	Rapid and Selective Discrimination of Gram-Positive and Gram-Negative Bacteria by Boronic Acid-Modified Poly(amidoamine) Dendrimer. <i>Analytical Chemistry</i> , 2019, 91, 3929-3935.	6.5	37
11	Design and Function of Supramolecular Recognition Systems Based on Guest-Targeting Probe-Modified Cyclodextrin Receptors for ATP. <i>Journal of Organic Chemistry</i> , 2017, 82, 976-981.	3.2	33
12	The design of phenylboronic acid azoprobeâ€“polyamidoamine dendrimer complexes as supramolecular sensors for saccharide recognition in water. <i>New Journal of Chemistry</i> , 2015, 39, 2620-2626.	2.8	22
13	Structural effect of fluorophore on phenylboronic acid fluorophore/cyclodextrin complex for selective glucose recognition. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 53-60.	4.4	19
14	Efficient Ion-Pair Extraction of Potassium Chloride from Aqueous Phase into Nitrobenzene Containing Dicyclohexyl-18-crown-6 as Cation Binder and Diphenylthiourea as Anion Binder.. <i>Analytical Sciences</i> , 1999, 15, 1185-1189.	1.6	18
15	A dibenzo-16-crown-5 fluoroionophore for selective emission ratio sensing of Na ⁺ in basic aqueous dioxane solutionâ€“â€“. <i>Perkin Transactions II RSC</i> , 2000, , 1003-1006.	1.1	17
16	Guest-induced supramolecular chirality in a ditopic azoprobeâ€“cyclodextrin complex in water. <i>Chemical Communications</i> , 2014, 50, 10059-10061.	4.1	17
17	Photocurrent enhancement of porphyrin molecules over a wide-wavelength region based on combined use of silver nanoparticles with different aspect ratios. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11439-11448.	5.5	16
18	Design of a polymer inclusion membrane having proton-ionizable polyether carriers and their separation function for lead ion. <i>Bunseki Kagaku</i> , 2003, 52, 755-762.	0.2	15

#	ARTICLE	IF	CITATIONS
19	Design of Supramolecular Cyclodextrin Complex Sensors for Ion and Molecule Recognition in Water. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2004, 50, 87-94.	1.6	15
20	Saccharide Recognition Based on Self-Assembly of Amphiphilic Phenylboronic Acid Azoprobes. <i>Langmuir</i> , 2016, 32, 10761-10766.	3.5	15
21	Development of Dipicolylamine-Modified Cyclodextrins for the Design of Selective Guest-Responsive Receptors for ATP. <i>Molecules</i> , 2018, 23, 635.	3.8	15
22	Electrochemical Assay for Extremely Selective Recognition of Fructose Based on β -Ferrocene-Phenylboronic Acid Probe and β -Cyclodextrins Supramolecular Complex. <i>Small</i> , 2020, 16, e2003359.	10.0	15
23	Lead Ion Selective Signal Amplification by a Supramolecular Podand Fluoroionophore/Surfactant Complex Sensor in Water. <i>Supramolecular Chemistry</i> , 2005, 17, 141-146.	1.2	14
24	Metal and Phosphate Ion Recognition Using Dipicolylamine-modified Fluorescent Silica Nanoparticles. <i>Analytical Sciences</i> , 2018, 34, 1125-1130.	1.6	14
25	Selective Sugar Recognition by Anthracene-Type Boronic Acid Fluorophore/Cyclodextrin Supramolecular Complex Under Physiological pH Condition. <i>Frontiers in Chemistry</i> , 2019, 7, 806.	3.6	14
26	<i>Staphylococcus aureus</i> Detection by Fluorescent Silica Nanoparticles Modified with Metal-Dipicolylamine Complexes. <i>Chemistry Letters</i> , 2016, 45, 749-751.	1.3	12
27	Phosphate-sensing with (di-(2-picolyl)amino)quinazolines based on a fluorescence on/off system. <i>RSC Advances</i> , 2020, 10, 15299-15306.	3.6	12
28	Design and function of metal-ion probes based on photosignal transduction.. <i>Bunseki Kagaku</i> , 2000, 49, 75-89.	0.2	10
29	Design and Evaluation of Selective Recognition on Supramolecular Gel Using Soft Molecular Template Effect. <i>Chemistry Letters</i> , 2014, 43, 228-230.	1.3	10
30	Fast and Sensitive Bacteria Detection by Boronic Acid Modified Fluorescent Dendrimer. <i>Sensors</i> , 2021, 21, 3115.	3.8	10
31	Electrochemical sugar recognition using a ruthenium complex with boronic acid assembled on polyamidoamine (PAMAM) dendrimer. <i>Analytical Methods</i> , 2012, 4, 2657.	2.7	9
32	A simple supramolecular complex of boronic acid-appended β -cyclodextrin and a fluorescent boronic acid-based probe with excellent selectivity for α -glucose in water. <i>RSC Advances</i> , 2022, 12, 20259-20263.	3.6	9
33	Analytical Chemistry represented by "super" and "ultra". Supramolecular function of fluorescent probe/cyclodextrin complex sensors in water.. <i>Bunseki Kagaku</i> , 2001, 50, 355-368.	0.2	8
34	Self-assembly of Amphiphilic Benzo-15-crown-5 Azoprobes in Response to Alkali Metal Ions in Water. <i>Chemistry Letters</i> , 2007, 36, 880-881.	1.3	8
35	Structural Effect of Amphiphilic Crown Ether Azoprobes on Alkali Metal Ion Recognition and Aggregation Behavior in Water. <i>Bulletin of the Chemical Society of Japan</i> , 2008, 81, 1589-1594.	3.2	8
36	Supramolecular Zn(II)-Dipicolylamine-Azobenzene-Aminocyclodextrin-ATP Complex: Design and ATP Recognition in Water. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4683.	4.1	8

#	ARTICLE	IF	CITATIONS
37	Rapid Bacterial Recognition over a Wide pH Range by Boronic Acid-Based Ditopic Dendrimer Probes for Gram-Positive Bacteria. <i>Molecules</i> , 2022, 27, 256.	3.8	8
38	Role of alkan-1-ol solvents in the synthesis of yellow luminescent carbon quantum dots (CQDs): van der Waals force-caused aggregation and agglomeration. <i>RSC Advances</i> , 2020, 10, 14396-14402.	3.6	7
39	Synthesis and Antioxidant Activity of Silver Nanoparticles Using the <i>Odontonema strictum</i> Leaf Extract. <i>Molecules</i> , 2022, 27, 3210.	3.8	7
40	Metal Ion Separations with Lariat Ether Ion-Exchange Resins. <i>ACS Symposium Series</i> , 1999, , 183-193.	0.5	6
41	Design of a podand fluoroionophore and its recognition function for lead ion.. <i>Bunseki Kagaku</i> , 2002, 51, 681-687.	0.2	6
42	Design of Supramolecular Cyclodextrin Complex Sensors for Ion and Molecule Recognition in Water. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2004, 50, 87-94.	1.6	6
43	Integration Methods of Cyclodextrins on Gold and Carbon Electrodes for Electrochemical Sensors. <i>Journal of Carbon Research</i> , 2019, 5, 78.	2.7	6
44	A novel electrochemical sugar recognition system using a ruthenium complex and phenylboronic acid assembled on gold nanoparticles. <i>Analytical Methods</i> , 2014, 6, 8874-8877.	2.7	5
45	Design and Function of Fluorescent Silica Nanoparticles for Bacteria Detection. <i>Journal of Ion Exchange</i> , 2018, 29, 121-125.	0.3	5
46	Design of Saccharide Recognition Material Based on Boronic Acid Fluorophore/Cyclodextrin Gel. <i>Journal of Ion Exchange</i> , 2018, 29, 126-130.	0.3	5
47	Structural effects of ditopic azoprobe-cyclodextrin complexes on the selectivity of guest-induced supramolecular chirality. <i>Chemical Communications</i> , 2018, 54, 12690-12693.	4.1	5
48	Electrochemical Sensing of Adenosin Triphosphate by Specific Binding to Dipicolylamine Group in Cyclodextrin Supramolecular Complex. <i>ACS Applied Bio Materials</i> , 2021, 4, 3041-3045.	4.6	5
49	Preparation of Saccharide Exchange Membrane Modified by Phenylboronic Acid Azoprobe/Polyamidoamine (PAMAM) Dendrimer. <i>Journal of Ion Exchange</i> , 2014, 25, 146-150.	0.3	5
50	Ratiometric fluorescence sensing of α -D-glucose using an inclusion complex of β -cyclodextrin with a benzoxaborole-based probe. <i>RSC Advances</i> , 2022, 12, 12145-12151.	3.6	5
51	Simple and Rapid Endotoxin Recognition Using a Dipicolylamine-Modified Fluorescent Probe with Picomolar-Order Sensitivity. <i>ACS Omega</i> , 2022, 7, 25891-25897.	3.5	5
52	Alkali Metal Ion Recognition by Amphiphilic Crown Ether Azoprobe-Cyclodextrin Complex in Water. <i>Bunseki Kagaku</i> , 2011, 60, 845-852.	0.2	4
53	Design and Function of Novel Azoprobe Possessing Multipoint Binding Sites for Dopamine Recognition. <i>Bunseki Kagaku</i> , 2012, 61, 213-219.	0.2	4
54	Development of Supramolecular Analytical Reagents Based on Ion Exchange and Host-Guest Interactions. <i>Journal of Ion Exchange</i> , 2008, 19, 148-155.	0.3	3

#	ARTICLE	IF	CITATIONS
55	Effect of Spacer Length in Pyrene-Modified-Phenylboronic Acid Probe/CyD Complexes on Fluorescence-based Recognition of Monosaccharides in Aqueous Solution. <i>Analytical Sciences</i> , 2021, 37, 721-726.	1.6	2
56	Study on the Development of Supramolecular Complexes Possessing Molecular Recognition and Ion Exchange Functions. <i>Journal of Ion Exchange</i> , 2015, 26, 15-22.	0.3	1
57	Micelle-Type Sensor for Saccharide Recognition by Using Boronic Acid Fluorescence Amphiphilic Probe and Surfactants. <i>Solvent Extraction and Ion Exchange</i> , 2021, 39, 668-677.	2.0	1
58	PREPARATION OF POROUS SPHERICAL HYDROXYAPATITE AGGLOMERATES INTERACTED WITH CYCLODEXTRIN. <i>Phosphorus Research Bulletin</i> , 2010, 24, 54-61.	0.6	1
59	NMR Investigation of the Supramolecular Complex Formed by a Phenylboronic Acid-Ferrocene Electroactive Probe and Native or Derivatized β -Cyclodextrin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6045.	4.1	1
60	Design and Function of Proton-Ionizable Cyclam Fluoroionophore for Zinc (II) Ion Sensing in Water. <i>Journal of Ion Exchange</i> , 2003, 14, 337-340.	0.3	0
61	Phosphate Derivative Recognition Using Polyamide Amine Dendrimer Reagent Modified by Dipicorylamine Ligand. <i>Bunseki Kagaku</i> , 2022, 71, 167-178.	0.2	0