

Shingo Saito

List of Publications by Year in descending order

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papers

910
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471509

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580821

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times ranked

845
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#	ARTICLE	IF	CITATIONS
1	Rapidly Neutralizable and Highly Anticoagulant Thrombin-Binding DNA Aptamer Discovered by MACE SELEX. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 16, 348-359.	5.1	53
2	On-Column Labeling of Gram-Positive Bacteria with a Boronic Acid Functionalized Squarylium Cyanine Dye for Analysis by Polymer-Enhanced Capillary Transient Isotachopheresis. <i>Analytical Chemistry</i> , 2012, 84, 2452-2458.	6.5	40
3	Combining capillary electrophoresis and next-generation sequencing for aptamer selection. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1527-1532.	3.7	39
4	SELEX-based DNA Aptamer Selection: A Perspective from the Advancement of Separation Techniques. <i>Analytical Sciences</i> , 2021, 37, 17-26.	1.6	35
5	A Long-Wavelength Fluorescent Squarylium Cyanine Dye Possessing Boronic Acid for Sensing Monosaccharides and Glycoproteins with High Enhancement in Aqueous Solution. <i>Sensors</i> , 2012, 12, 5420-5431.	3.8	32
6	<i>c</i> -Type Cytochrome Assembly Is a Key Target of Copper Toxicity within the Bacterial Periplasm. <i>MBio</i> , 2015, 6, e01007-15.	4.1	31
7	Rapid acquisition of high-affinity DNA aptamer motifs recognizing microbial cell surfaces using polymer-enhanced capillary transient isotachopheresis. <i>Chemical Communications</i> , 2016, 52, 461-464.	4.1	31
8	A single-round selection of selective DNA aptamers for mammalian cells by polymer-enhanced capillary transient isotachopheresis. <i>Analyst, The</i> , 2017, 142, 4030-4038.	3.5	29
9	Facilitating aptamer selection and collection by capillary transient isotachopheresis with laser-induced fluorescence detection. <i>Journal of Chromatography A</i> , 2014, 1368, 183-189.	3.7	27
10	Highly-sensitive simultaneous detection of lanthanide(III) ions as kinetically stable aromatic polyaminocarboxylate complexes via capillary electrophoresis using resolution enhancement with carbonate ion. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1644-1647.	3.7	26
11	Simultaneous detection of [metal(ii)-tpen] ²⁺ as kinetically inert cationic complexes using pre-capillary derivatization electrophoresis: an application to biological samples. <i>Analyst, The</i> , 2005, 130, 659-663.	3.5	23
12	Interfacial water on hydrophobic surfaces recognized by ions and molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15925.	2.8	23
13	Molecular Design of Boronic Acid-Functionalized Squarylium Cyanine Dyes for Multiple Discriminant Analysis of Sialic Acid in Biological Samples: Selectivity toward Monosaccharides Controlled by Different Alkyl Side Chain Lengths. <i>Analytical Chemistry</i> , 2015, 87, 1933-1940.	6.5	21
14	Direct fluorescence detection of Pb ²⁺ and Cd ²⁺ by high-performance liquid chromatography using 1-(4-aminobenzyl)ethylenediamine-N,N,N',N'-tetraacetate as a pre-column derivatizing agent. <i>Journal of Chromatography A</i> , 2006, 1104, 140-144.	3.7	19
15	Multistep pH-Peak-Focusing Countercurrent Chromatography with a Polyethylene Glycol-Na ₂ SO ₄ Aqueous Two Phase System for Separation and Enrichment of Rare Earth Elements. <i>Analytical Chemistry</i> , 2013, 85, 978-984.	6.5	19
16	Selective ultratrace detection of Al(III) and Ga(III) complexed with a calcein isomer by capillary zone electrophoresis with laser-induced fluorescence detection. <i>Journal of Chromatography A</i> , 2007, 1140, 230-235.	3.7	18
17	Separation selectivity of aqueous polyethylene glycol-based separation systems: DSC, LC and aqueous two-phase extraction studies. <i>Polymer</i> , 2008, 49, 4168-4173.	3.8	18
18	Direct fluorescence detection of ultratrace lanthanide(III) ions complexed with aromatic polyaminocarboxylate, avoiding quenching of ligand-centered emission, using capillary zone electrophoresis with a ternary complexing technique. <i>Analyst, The</i> , 2007, 132, 237.	3.5	17

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19	Superheated Water Ion-Exchange Chromatography: An Experimental Approach for Interpretation of Separation Selectivity in Ion-Exchange Processes. <i>Analytical Chemistry</i> , 2009, 81, 8025-8032.	6.5	17
20	Identification of a novel component leading to anti-tumor activity besides the major ingredient cordycepin in <i>Cordyceps militaris</i> extract. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1061-1062, 209-219.	2.3	17
21	Entropy-Controlled Solvolytic Dissociation Kinetics of Lanthanide(III) Complexes with Polyaminocarboxylates in Aqueous Solutions. <i>Inorganic Chemistry</i> , 2001, 40, 3819-3823.	4.0	15
22	Chemical Suppression of Contaminant Metal Ions Using a Metastable State in Precolumn Derivatizing HPLC: An Ultratrace Fluorometric Detection of Al(III). <i>Analytical Chemistry</i> , 2005, 77, 5332-5338.	6.5	15
23	Highly sensitive determination of lanthanides by capillary electrophoresis with direct visible detection after precapillary complexation with aromatic polyaminocarboxylate and additionally applying dynamic ternary complexation with nitrilotriacetic acid. <i>Electrophoresis</i> , 2006, 27, 3093-3100.	2.4	15
24	Ultrasensitive CE for heavy metal ions using the variations in the chemical structures formed from new octadentate fluorescent probes and cationic polymers. <i>Analyst</i> , 2011, 136, 2697.	3.5	15
25	Highly sensitive detection of neodymium ion in small amount of spent nuclear fuel samples using novel fluorescent macrocyclic hexadentate polyaminocarboxylate probe in capillary electrophoresis-laser-induced fluorescence detection. <i>Journal of Chromatography A</i> , 2012, 1232, 152-157.	3.7	15
26	An Application of Polymer-Enhanced Capillary Transient Isotachopheresis with an Emissive Boronic Acid Functionalized Squarylium Dye as an On-Capillary Labeling Agent for Gram-positive Bacteria. <i>Analytical Sciences</i> , 2013, 29, 157-159.	1.6	15
27	Direct fluorometric detection of paramagnetic and heavy metal ions at sub-amol level using an aromatic polyaminocarboxylate by CZE: Combination of pre- and on-capillary complexation technique. <i>Electrophoresis</i> , 2007, 28, 2448-2457.	2.4	13
28	Solubilization of polystyrene into monoterpenes. <i>Advances in Polymer Technology</i> , 2008, 27, 35-39.	1.7	13
29	Luminescence-based colorimetric discrimination of single-nucleotide transversions by the combined use of the derivatives of DOTA-conjugated naphthyridine and its terbium complex. <i>Tetrahedron Letters</i> , 2009, 50, 2177-2180.	1.4	13
30	New Molecular Motif for Recognizing Sialic Acid Using Emissive Lanthanide- β -Macrocyclic Polyazacarboxylate Complexes: Deprotonation of a Coordinated Water Molecule Controls Specific Binding. <i>Inorganic Chemistry</i> , 2013, 52, 6239-6241.	4.0	13
31	Safe and rapid development of capillary electrophoresis for ultratrace uranyl ions in radioactive samples by way of fluorescent probe selection for actinide ions from a chemical library. <i>Analytica Chimica Acta</i> , 2018, 1032, 188-196.	5.4	13
32	Carbon Dot-Mediated Capillary Electrophoresis Separations of Metallated and Demetallated Forms of Transferrin Protein. <i>Molecules</i> , 2019, 24, 1916.	3.8	13
33	Inhibitory effects of l-pipecolic acid from the edible mushroom, <i>Sarcodon aspratus</i> , on angiotensin l-converting enzyme. <i>Journal of Wood Science</i> , 2008, 54, 179-181.	1.9	12
34	Separation of metalloproteins using a novel metal ion contaminant sweeping technique and detection of protein-bound copper by a metal ion probe in polyacrylamide gel electrophoresis: distribution of copper in human serum. <i>Analyst</i> , 2013, 138, 6097.	3.5	12
35	Determination of Free Lime in Steelmaking Slags by Use of Ethylene Glycol Extraction/ICP-AES and Thermogravimetry. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2014, 100, 340-345.	0.4	11
36	Determination of the <i>cis</i> - β -Alanyl-L-proline in Aqueous Solutions and at Water/Hydrophobic Interfaces by On-Line Temperature-Jump Relaxation HPLC and Dynamic On-Column Reaction HPLC. <i>Analytical Chemistry</i> , 2015, 87, 9280-9287.	6.5	11

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37	Control of the contaminant level for determination of Al ³⁺ using 8-quinolinol by high-performance liquid chromatography with fluorescence detection. <i>Journal of Chromatography A</i> , 2008, 1190, 198-203.	3.7	9
38	Surface-Bubble-Modulated Liquid Chromatography: A New Approach for Manipulation of Chromatographic Retention and Investigation of Solute Distribution at Water/Hydrophobic Interfaces. <i>Analytical Chemistry</i> , 2015, 87, 1180-1187.	6.5	9
39	Adsorption at the Water/Hydrophobe Interface versus Partition into the Interior of the Hydrophobe: Quantitative Evaluation of the Solute Retention Selectivity at the Water/Hydrocarbon Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4409-4418.	3.1	8
40	Effect of Acetonitrile on the Solute Distribution at the Heterogeneous Interface Region between Water and Hydrocarbonaceous Silica Revealed by Surface-Bubble-Modulated Liquid Chromatography. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28674-28683.	3.1	7
41	Determination of Free Magnesium Oxide in Steelmaking Slags by Microwave-Assisted-Hydration/Thermogravimetry. <i>ISIJ International</i> , 2018, 58, 1834-1839.	1.4	7
42	Advanced Gel Electrophoresis Techniques Reveal Heterogeneity of Humic Acids Based on Molecular Weight Distributions of Kinetically Inert Cu ²⁺ -Humate Complexes. <i>Environmental Science & Technology</i> , 2019, 53, 14507-14515.	10.0	7
43	Purification of anionic fluorescent probes through precise fraction collection with a two-point detection system using multiple-stacking preparative capillary transient isotachopheresis. <i>Electrophoresis</i> , 2020, 41, 1152-1159.	2.4	7
44	Dissociation Rate Constant Estimation for the Cerium(III)-O,O'-bis(2-aminoethyl)ethyleneglycol-N,N,N',N'-tetraacetate System by Capillary Electrophoresis.. <i>Analytical Sciences</i> , 2000, 16, 1095-1097.	1.6	6
45	Fluorescence-based affinity labeling of nucleobase by hydrogenbond forming metal complex. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 303-304.	0.3	6
46	Application of Capillary Electrophoresis with Laser-induced Fluorescence Detection for the Determination of Trace Neodymium in Spent Nuclear Fuel Using Complexation with an Emissive Macrocyclic Polyaminocarboxylate Probe. <i>Analytical Sciences</i> , 2014, 30, 773-776.	1.6	6
47	Recognition of Monosaccharides with Energy-transfer Luminescence Using Residual Coordination Sites of Lanthanide(III)-4-Aminobenzyl-EDTA Complex in Aqueous Solution. <i>Chemistry Letters</i> , 2009, 38, 412-413.	1.3	5
48	X-Ray absorption fine structure spectroscopy studies of thermal effects on ion-exchange equilibria. <i>RSC Advances</i> , 2012, 2, 8985.	3.6	5
49	Mechanism of ion stacking in aqueous partition chromatographic processes. <i>Journal of Separation Science</i> , 2017, 40, 3205-3213.	2.5	5
50	Partition/Ion-Exclusion Chromatographic Ion Stacking for the Analysis of Trace Anions in Water and Salt Samples by Ion Chromatography. <i>Analytical Sciences</i> , 2018, 34, 369-373.	1.6	5
51	Stoichiometry between Humate Unit Molecules and Metal Ions in Supramolecular Assembly Induced by Cu ²⁺ and Tb ³⁺ Measured by Gel Electrophoresis Techniques. <i>Environmental Science & Technology</i> , 2021, 55, 15172-15180.	10.0	5
52	Highly Sensitive Energy-Transfer Luminescence of the N,N'-Bis(2-hydroxybenzyl)-ethylenediamine-N,N'-diacetatoterbium(III) Complex in Aqueous Solution. <i>Bulletin of the Chemical Society of Japan</i> , 2000, 73, 1817-1821.	3.2	4
53	Formation reactions and photophysical parameters of highly luminescent lanthanoids(III) complexes with 4-hydroxypyridine-2,6-dicarboxylic acid. <i>Bunseki Kagaku</i> , 2003, 52, 713-718.	0.2	4
54	Simple Spectrophotometric Determination of Trace Amounts of Zinc in Environmental Water Samples Using Aqueous Biphasic Extraction. <i>Bunseki Kagaku</i> , 2010, 59, 847-854.	0.2	4

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55	Reversed-phase ion-pair liquid chromatographic method for determination of reaction equilibria involving ionic species: Exemplification of the method using ligand substitution reactions of ethylenediaminetetraacetatochromium(III) ion with acetate and phosphate ions. <i>Journal of Chromatography A</i> , 2011, 1218, 922-928.	3.7	4
56	Affinity Capillary Electrophoresis for Selective Control of Electrophoretic Mobility of Sialic Acid Using Lanthanide-Hexadentate Macrocyclic Polyazacarboxylate Complexes. <i>Analytical Sciences</i> , 2015, 31, 1143-1149.	1.6	4
57	Superheated Water Ion-exchange Chromatography. <i>Bunseki Kagaku</i> , 2016, 65, 615-623.	0.2	4
58	Two-Dimensional Polyacrylamide Gel Electrophoresis for Metalloprotein Analysis Based on Differential Chemical Structure Recognition by CBB Dye. <i>Scientific Reports</i> , 2019, 9, 10566.	3.3	4
59	Intrinsic difference between phenyl hexyl- and octadecyl-bonded silicas in the solute retention selectivity in reversed-phase liquid chromatography with aqueous mobile phase. <i>Journal of Chromatography A</i> , 2020, 1628, 461450.	3.7	4
60	Transmetalation in a Ce(III)-Phosphoester Crystalline Coordination Polymer with an Exceptionally High Selectivity for Yb(III) and Lu(III). <i>Chemistry - an Asian Journal</i> , 2020, 15, 2653-2659.	3.3	4
61	Single-Round DNA Aptamer Selection by Combined Use of Capillary Electrophoresis and Next Generation Sequencing: An Aptamomics Approach for Identifying Unique Functional Protein-Binding DNA Aptamers. <i>Chemistry - A European Journal</i> , 2021, 27, 10058-10067.	3.3	4
62	Selective Spectrophotometric Determination of Trace Amounts of Cadmium in Soil and Sediment Samples Using a Green Aqueous Biphasic Extraction. <i>Analytical Sciences</i> , 2016, 32, 1095-1100.	1.6	3
63	Effect of coexisting alkali metal ions on the variation in the coordination mode of 1,4-phenylenebis(methylidyne)tetrakis(phosphonic acid) in a lanthanum(III) metal-organic framework. <i>Inorganic Chemistry Communication</i> , 2021, 128, 108560.	3.9	3
64	Determination of Trace Amount of Cobalt in a Steel Sample by Two-dimensional On-line Redox Derivatization Liquid Chromatography. <i>ISIJ International</i> , 2012, 52, 1622-1626.	1.4	3
65	Fluorescence determination of closed-shell rare earth metal ions by reversed-phase HPLC with precolumn derivatization using 8-amino-2-[(2-amino-5-methylphenoxy)methyl]-6-methoxyquinoline-N,N',N'-tetraacetate.. <i>Bunseki Kagaku</i> , 2001, 50, 113-117.	0.2	2
66	Retention behavior of cationic aluminium chelate with o,o'-dihydroxyazobenzene in HPLC using the C18-bonded silica stationary phase.. <i>Bunseki Kagaku</i> , 2002, 51, 833-836.	0.2	2
67	Excess adsorption of acetonitrile and water on MIL-100(Fe) and its potential application in mixed-mode chromatography. <i>New Journal of Chemistry</i> , 2019, 43, 16566-16571.	2.8	2
68	Alkali Metal Ion-exchange in a Metal-Organic Framework Based on Lanthanum and 1,4-Phenylenebis(methylidyne)tetrakis(phosphonic acid). <i>Analytical Sciences</i> , 2021, , .	1.6	2
69	Separation approaches towards understanding supramolecular aggregate formation of humic acid. <i>Analytical Sciences</i> , 2022, 38, 233-234.	1.6	2
70	Sorption of Cr(VI) on the wood of Japanese larch treated with concentrated sulfuric acid. <i>Journal of Wood Science</i> , 2007, 53, 545-549.	1.9	1
71	Total Design of Novel Fluorescent Probes and Kinetically Integrated Chemical Systems for the Separation and Detection of Metal Ions. <i>Bunseki Kagaku</i> , 2011, 60, 773-784.	0.2	1
72	Synergistic effect of temperature and background counterions on ion-exchange equilibria. <i>RSC Advances</i> , 2018, 8, 26849-26856.	3.6	1

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73	Facilitated Dehydration of Rb ⁺ Ions in Cation-Exchange Resin when Surrounded by Cs ⁺ Ions: A Marked Phenomenon in Superheated Water. <i>ChemistrySelect</i> , 2019, 4, 4718-4725.	1.5	1
74	Characterization of the Interfacial Liquid Layer Formed on Hydrophobic Packing Material Surfaces by Liquid Chromatographic Analysis of the Distribution of Ions and Molecules. <i>ACS Omega</i> , 2022, 7, 15158-15166.	3.5	1
75	Thin layer chromatographic behavior of a lanthanum-alizarin complexone-fluoride ternary complex.. <i>Bunseki Kagaku</i> , 2002, 51, 837-839.	0.2	0
76	A Chromatographic Approach for Studying Adsorption of Polar Small Molecules on Tetrabutylammonium Bromide Semiclathrate Hydrate. <i>Analytical Sciences</i> , 2021, , .	1.6	0
77	Capillary Electrophoresis With Laser-Induced Fluorescent Detection Method Using Highly Emissive Probes for Analysis of Actinides in Radioactive Wastes. , 2011, , .		0
78	Mapping of protein-bound metal ions using novel polyacrylamide electrophoresis. <i>Seibutsu Butsuri Kagaku</i> , 2014, 58, 24-26.	0.1	0
79	Quantitation of Trace Lanthanide and Actinide Ions in Radioactive Samples by Capillary Electrophoresis-Laser-Induced Fluorescence Detection. <i>Bunseki Kagaku</i> , 2021, 70, 671-679.	0.2	0