

Masami Shibukawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Characterization of the Interfacial Liquid Layer Formed on Hydrophobic Packing Material Surfaces by Liquid Chromatographic Analysis of the Distribution of Ions and Molecules. ACS Omega, 2022, 7, 15158-15166.	3.5	1
2	Alkali Metal Ion-exchange in a Metal-Organic Framework Based on Lanthanum and 1,4-Phenylenebis(methylidyne)tetrakis(phosphonic acid). Analytical Sciences, 2021, , .	1.6	2
3	Single-Round DNA Aptamer Selection by Combined Use of Capillary Electrophoresis and Next Generation Sequencing: An Aptomics Approach for Identifying Unique Functional Protein-Binding DNA Aptamers. Chemistry - A European Journal, 2021, 27, 10058-10067.	3.3	4
4	A Chromatographic Approach for Studying Adsorption of Polar Small Molecules on Tetrabutylammonium Bromide Semiclathrate Hydrate. Analytical Sciences, 2021, , .	1.6	0
5	Intrinsic difference between phenyl hexyl- and octadecyl-bonded silicas in the solute retention selectivity in reversed-phase liquid chromatography with aqueous mobile phase. Journal of Chromatography A, 2020, 1628, 461450.	3.7	4
6	Transmetalation in a Ce(III)-phosphoester Crystalline Coordination Polymer with an Exceptionally High Selectivity for Yb(III) and Lu(III). Chemistry - an Asian Journal, 2020, 15, 2653-2659.	3.3	4
7	Purification of anionic fluorescent probes through precise fraction collection with a two-point detection system using multiple-stacking preparative capillary transient isotachopheresis. Electrophoresis, 2020, 41, 1152-1159.	2.4	7
8	Simultaneous Determination of Cationic and Anionic Surfactants in Environmental Water Samples by Ion-Pair Liquid Chromatography/Mass Spectrometry. Current Chromatography, 2020, 7, 57-64.	0.3	1
9	Two-Dimensional Polyacrylamide Gel Electrophoresis for Metalloprotein Analysis Based on Differential Chemical Structure Recognition by CBB Dye. Scientific Reports, 2019, 9, 10566.	3.3	4
10	Facilitated Dehydration of Rb ⁺ Ions in Cation-Exchange Resin when Surrounded by Cs ⁺ Ions: A Marked Phenomenon in Superheated Water. ChemistrySelect, 2019, 4, 4718-4725.	1.5	1
11	Rapidly Neutralizable and Highly Anticoagulant Thrombin-Binding DNA Aptamer Discovered by MACE SELEX. Molecular Therapy - Nucleic Acids, 2019, 16, 348-359.	5.1	53
12	Excess adsorption of acetonitrile and water on MIL-100(Fe) and its potential application in mixed-mode chromatography. New Journal of Chemistry, 2019, 43, 16566-16571.	2.8	2
13	Advanced Gel Electrophoresis Techniques Reveal Heterogeneity of Humic Acids Based on Molecular Weight Distributions of Kinetically Inert Cu ²⁺ -Humate Complexes. Environmental Science & Technology, 2019, 53, 14507-14515.	10.0	7
14	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. Journal of Physical Chemistry C, 2018, 122, 4409-4418.	3.1	8
15	Partition/Ion-Exclusion Chromatographic Ion Stacking for the Analysis of Trace Anions in Water and Salt Samples by Ion Chromatography. Analytical Sciences, 2018, 34, 369-373.	1.6	5
16	Synergistic effect of temperature and background counterions on ion-exchange equilibria. RSC Advances, 2018, 8, 26849-26856.	3.6	1
17	Effect of Acetonitrile on the Solute Distribution at the Heterogeneous Interface Region between Water and Hydrocarbonaceous Silica Revealed by Surface-Bubble-Modulated Liquid Chromatography. Journal of Physical Chemistry C, 2018, 122, 28674-28683.	3.1	7
18	Determination of Free Magnesium Oxide in Steelmaking Slags by Microwave-Assisted-Hydration/Thermogravimetry. ISIJ International, 2018, 58, 1834-1839.	1.4	7

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19	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
20	Mechanism of ion stacking in aqueous partition chromatographic processes. <i>Journal of Separation Science</i> , 2017, 40, 3205-3213.	2.5	5
21	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
22	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
23	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
24	Superheated Water Ion-exchange Chromatography. <i>Bunseki Kagaku</i> , 2016, 65, 615-623.	0.2	4
25	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
26	Determination of the <i>cis</i> – <i>trans</i> Isomerization Barriers of <i>l</i> -Alanyl- <i>l</i> -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
27	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
28	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
29	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, The</i> , 2013, 138, 6097.	3.5	12
30	Solid-phase Extraction of Lead and Cadmium in Fresh Water on Hydrotalcite and Their Determination by Graphite Furnace Atomic Absorption Spectrometry. <i>Bunseki Kagaku</i> , 2012, 61, 311-317.	0.2	0
31	X-Ray absorption fine structure spectroscopy studies of thermal effects on ion-exchange equilibria. <i>RSC Advances</i> , 2012, 2, 8985.	3.6	5
32	Evaluation of the thermal effect on separation selectivity in anion-exchange processes using superheated water ion-exchange chromatography. <i>Analyst, The</i> , 2012, 137, 3154.	3.5	15
33	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
34	Ultrasensitive CE for heavy metal ions using the variations in the chemical structures formed from new octadentate fluorescent probes and cationic polymers. <i>Analyst, The</i> , 2011, 136, 2697.	3.5	15
35	Interfacial water on hydrophobic surfaces recognized by ions and molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15925.	2.8	23
36	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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37	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
38	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
39	On-column electrochemical redox derivatization for enhancement of separation selectivity of liquid chromatography. <i>Journal of Chromatography A</i> , 2008, 1180, 66-72.	3.7	16
40	On-Line Electrochemical Redox Derivatization for Enhancement of Separation Selectivity of Liquid Chromatography. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 951-956.	3.2	4
41	Measurement of Mobile-Phase Volume in Reversed-Phase Liquid Chromatography and Evaluation of the Composition of Liquid Layer Formed by Solvation of Packing Materials. <i>Analytical Chemistry</i> , 2007, 79, 6279-6286.	6.5	21
42	Preconcentration of Trace Amounts of Cu(II) into the Liquid-Liquid Interface with Chitosan and Its Determination by Graphite Furnace Atomic Absorption Spectrometry. <i>Bunseki Kagaku</i> , 2006, 55, 573-578.	0.2	1
43	On-line redox derivatization liquid chromatography using double separation columns and one derivatization unit. <i>Journal of Separation Science</i> , 2006, 29, 49-56.	2.5	10
44	Studies on the States of Water in Separation Media of Aqueous Liquid Chromatography in Relation to Separation Selectivity. <i>Bunseki Kagaku</i> , 2006, 55, 149-162.	0.2	10
45	Solute retention and the states of water in polyethylene glycol and poly(vinyl alcohol) gels. <i>Journal of Chromatography A</i> , 2004, 1040, 45-51.	3.7	36
46	Evaluation of the surface charge properties of porous graphitic carbon stationary phases treated with redox agents. <i>Analyst, The</i> , 2004, 129, 623.	3.5	17
47	Separation of inorganic ions by high-speed countercurrent chromatography with an aqueous biphasic system. <i>Bunseki Kagaku</i> , 2004, 53, 911-917.	0.2	7
48	Liquid chromatography and differential scanning calorimetry studies on the states of water in polystyrene- <i>divinylbenzene</i> copolymer gels. <i>Journal of Chromatography A</i> , 2003, 1010, 177-184.	3.7	8
49	On-Column Derivatization Using Redox Activity of Porous Graphitic Carbon Stationary Phase: An Approach to Enhancement of Separation Selectivity of Liquid Chromatography. <i>Analytical Chemistry</i> , 2003, 75, 2775-2783.	6.5	28
50	Superheated Water Chromatography of Phenols Using Poly(styrene- <i>divinylbenzene</i>) Packings as a Stationary Phase.. <i>Analytical Sciences</i> , 2003, 19, 269-272.	1.6	23
51	Determination of trace amounts of aluminum in drinking water by reversed-phase ion-pair HPLC with spectrophotometric detection. <i>Bunseki Kagaku</i> , 2003, 52, 719-724.	0.2	0
52	Determination of ethanol in alcoholic beverages by high-performance liquid chromatography- <i>flame ionization</i> detection using pure water as mobile phase. <i>Journal of Chromatography A</i> , 2002, 976, 387-391.	3.7	99
53	Effects of Phase-Forming Cations and Anions on the Partition of Ionic Solutes in Aqueous Polyethylene Glycol-Inorganic Salt Two-Phase Systems.. <i>Analytical Sciences</i> , 2000, 16, 1039-1044.	1.6	29
54	Liquid chromatography and differential scanning calorimetry studies on the states of water in hydrophilic polymer gel packings in relation to retention selectivity. <i>Journal of Chromatography A</i> , 1999, 832, 17-27.	3.7	33

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55	Redox Reaction Catalyzed by a Porous Graphite Carbon Packing and its Application to Selectivity Enhancement of High-performance Liquid Chromatography Separation of Metal Complexes. Analytical Communications, 1997, 34, 397-400.	2.2	15
56	Dependence of retention of ionic solutes on the composition of the mobile phase electrolytes in partition chromatography. Journal of Chromatography A, 1993, 655, 199-205.	3.7	8
57	Investigation of the States of Water in Water-Swollen Hydrogels by Liquid Chromatography and Differential Scanning Calorimetry. Bulletin of the Chemical Society of Japan, 1990, 63, 3490-3494.	3.2	23
58	Effect of eluent electrolyte on the chromatographic behavior of ionic solutes on polyacrylamide gel. Bunseki Kagaku, 1983, 32, 557-561.	0.2	4
59	Distribution processes of inorganic solutes in gel chromatography. Analytical Chemistry, 1981, 53, 1620-1627.	6.5	29