

Shigehiro Kagaya

List of Publications by Year in descending order

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47
papers

1,015
citations

394421

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434195

31
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47
all docs

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docs citations

47
times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Arylation Polycondensation: A Promising Method for the Synthesis of Highly Pure, High-Molecular-Weight Conjugated Polymers Needed for Improving the Performance of Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 3226-3233.	14.9	126
2	A solid phase extraction using a chelate resin immobilizing carboxymethylated pentaethylenehexamine for separation and preconcentration of trace elements in water samples. <i>Talanta</i> , 2009, 79, 146-152.	5.5	84
3	Carboxybetaine Polymer-Protected Gold Nanoparticles: High Dispersion Stability and Resistance against Non-Specific Adsorption of Proteins. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 862-873.	2.2	71
4	Selective removal of mercury(II) from wastewater using polythioamides. <i>Journal of Hazardous Materials</i> , 2010, 175, 1113-1115.	12.4	59
5	A sensitive and selective method for determination of gold(III) based on electrothermal atomic absorption spectrometry in combination with dispersive liquid-liquid microextraction using dicyclohexylamine. <i>Talanta</i> , 2010, 80, 1364-1370.	5.5	55
6	Stability studies of poly(vinyl chloride)-based polymer inclusion membranes containing Aliquat 336 as a carrier. <i>Separation and Purification Technology</i> , 2012, 101, 69-75.	7.9	49
7	Coprecipitation with yttrium phosphate as a separation technique for iron(III), lead, and bismuth from cobalt, nickel, and copper matrices. <i>Talanta</i> , 2005, 67, 90-97.	5.5	46
8	Comparative assessment of the efficiency of Fe-doped TiO ₂ prepared by two doping methods and photocatalytic degradation of phenol in domestic water suspensions. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 286-291.	6.1	44
9	Determination of Cadmium in Water Samples by Liquid Electrode Plasma Atomic Emission Spectrometry after Solid Phase Extraction Using a Mini Cartridge Packed with Chelate Resin Immobilizing Carboxymethylated Pentaethylenehexamine. <i>Analytical Sciences</i> , 2010, 26, 515-518.	1.6	34
10	The use of a polymer inclusion membrane as a sorbent for online preconcentration in the flow injection determination of thiocyanate impurity in ammonium sulfate fertilizer. <i>Talanta</i> , 2014, 129, 560-564.	5.5	30
11	Polythioamide as a Collector for Valuable Metals from Aqueous and Organic Solutions. <i>Chemistry Letters</i> , 2003, 32, 622-623.	1.3	28
12	Application of Internal Standardization to Rapid Coprecipitation Technique Using Lanthanum Phosphate for Flame Atomic Absorption Spectrometric Determination of Iron and Lead. <i>Analytical Sciences</i> , 2002, 18, 923-926.	1.6	27
13	Inductively coupled plasma atomic emission spectrometric determination of 27 trace elements in table salts after coprecipitation with indium phosphate. <i>Talanta</i> , 2009, 79, 512-516.	5.5	26
14	Chelating Materials Immobilizing Carboxymethylated Pentaethylenehexamine and Polyethyleneimine as Ligands. <i>Analytical Sciences</i> , 2014, 30, 35-42.	1.6	25
15	Solid-Phase Extraction of Cobalt(II) from Lithium Chloride Solutions Using a Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 18 27, 653-657.	1.6	24
16	Chelating resin immobilizing carboxymethylated polyethyleneimine for selective solid-phase extraction of trace elements: Effect of the molecular weight of polyethyleneimine and its carboxymethylation rate. <i>Talanta</i> , 2016, 147, 342-350.	5.5	24
17	Selective Separation of Palladium from Organic Solutions Containing Nickel or Platinum using Polythioamide as a Sorbent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009, 19, 67-73.	3.7	22
18	Potential of Presep [®] PolyChelate as a Chelating Resin: Comparative Study with Some Aminocarboxylic Acid-type Resins. <i>Analytical Sciences</i> , 2013, 29, 1107-1112.	1.6	22

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19	Diffusion-Controlled Recrystallization of Water Sorbed into Poly(meth)acrylates Revealed by Variable-Temperature Mid-Infrared Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5133-5141.	2.6	20
20	Chelating fibers prepared with a wet spinning technique using a mixture of a viscose solution and a polymer ligand for the separation of metal ions in an aqueous solution. <i>Journal of Hazardous Materials</i> , 2012, 203-204, 370-373.	12.4	19
21	Determination of Cadmium in River Water by Electrothermal Atomic Absorption Spectrometry after Internal Standardization-Assisted Rapid Coprecipitation with Lanthanum Phosphate. <i>Analytical Sciences</i> , 2003, 19, 1061-1064.	1.6	17
22	Size resolved characteristics of urban and suburban bacterial bioaerosols in Japan as assessed by 16S rRNA amplicon sequencing. <i>Scientific Reports</i> , 2020, 10, 12406.	3.3	17
23	Rapid Coprecipitation Technique Using Yttrium Hydroxide for the Preconcentration and Separation of Trace Elements in Saline Water Prior to Their ICP-AES Determination. <i>Analytical Sciences</i> , 2007, 23, 1021-1024.	1.6	16
24	Selective sorption of gold(III) by polystyrene-supported β -pyridylamino oligomers. <i>Journal of Materials Chemistry</i> , 2000, 10, 2442-2444.	6.7	13
25	Methyl benzoate as a non-halogenated extraction solvent for dispersive liquid-liquid microextraction: Application to the preconcentration of copper(II) with 1-nitroso-2-naphthol. <i>Analytical Methods</i> , 2012, 4, 4378.	2.7	13
26	Mid-Infrared Spectroscopic Investigation of the Perfect Vitrification of Poly(ethylene glycol) Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 10881-10887.	3.5	13
27	Improvement of Chromium(VI) Extraction from Acidic Solutions Using a Poly(vinyl chloride)-based Polymer Inclusion Membrane with Aliquat 336 as the Carrier. <i>Analytical Sciences</i> , 2017, 33, 643-646.	1.6	13
28	Rapid determination of total mercury in treated waste water by cold vapor atomic absorption spectrometry in alkaline medium with sodium hypochlorite solution. <i>Talanta</i> , 2004, 64, 554-557.	5.5	12
29	A porous sintered material consisting of Presep PolyChelate as a chelating resin and particulate polyethylene as a thermoplastic binder for solid-phase extraction of trace elements. <i>Talanta</i> , 2018, 188, 665-670.	5.5	11
30	Preparation of poly(arylenediphosphine)s by palladium-catalyzed polycondensation: Formation of polymer transition-metal complexes and catalytic reactions. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2637-2647.	2.3	9
31	Phosphomethylated Polyethyleneimine-immobilized Chelating Resin: Role of Phosphomethylation Rate on Solid-Phase Extraction of Trace Elements. <i>Analytical Sciences</i> , 2019, 35, 413-419.	1.6	9
32	Effect of nitrous acid gas on the nitration of pyrene adsorbed on silica particles by nitrogen dioxide. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2000, 35, 765-773.	1.7	7
33	Solid Phase Extraction of Arsenic Using an Iron(III)-Supported Chelate Resin Immobilizing Carboxymethylated Pentaethylenhexamine. <i>Bunseki Kagaku</i> , 2011, 60, 629-634.	0.2	6
34	Use of Yttrium Phosphate as a Coprecipitant for Separation/Concentration of Lanthanoids. <i>Analytical Sciences</i> , 2008, 24, 1643-1646.	1.6	5
35	Determination of Al, Cr, Fe, Zn, Cd, Pb and Bi in Crude Drugs by Inductively Coupled Plasma Atomic Emission Spectrometry after Coprecipitation with Yttrium Phosphate. <i>Journal of Health Science</i> , 2008, 54, 682-685.	0.9	5
36	A Monolith-like Macroporous Reversed Phase/Anion Exchange Mixed-mode Adsorbent Sintered with a Polyethylene Powder for Solid-phase Extraction. <i>Bunseki Kagaku</i> , 2012, 61, 335-340.	0.2	5

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37	Applicability of Internal Standardization with Yttrium to the Solid-phase Extraction of Trace Elements in Groundwater and Wastewater Using an Aminocarboxylic Acid-type Chelating Resin. <i>Analytical Sciences</i> , 2021, 37, 1147-1156.	1.6	3
38	Production of Laccase by Membrane-Surface Liquid Culture with Nonwoven Fabric of <i>Coriolus versicolor</i> . <i>ACS Symposium Series</i> , 2002, , 108-120.	0.5	2
39	Potential of Carboxymethylated Polyallylamine as a Functional Group on Chelating Resin for Solid-Phase Extraction of Trace Elements. <i>Analytical Sciences</i> , 2020, 36, 583-588.	1.6	2
40	Solid-phase Extraction of Trace Elements Using a Chelating Fiber Prepared with a Wet-spinning Technique Employing a Mixture of Viscose and Fine Particulate Chelate Resin Immobilizing Carboxymethylated Pentaethylenehexamine. <i>Bunseki Kagaku</i> , 2012, 61, 621-628.	0.2	1
41	Rapid Coprecipitation Technique for the Separation and Preconcentration of Trace Elements. <i>Bunseki Kagaku</i> , 2016, 65, 13-23.	0.2	1
42	Determination of Dissolved Mercury(II) in Rainwater by Heat-Vaporization Atomic Absorption Spectrometry after Sorption with Zinc(II) Sulfide. <i>Bunseki Kagaku</i> , 2007, 56, 1127-1131.	0.2	0
43	Solid-phase Extraction of Gold(III) Using a Fibrous Adsorbent Immobilizing Pentaethylenehexamine. <i>Bunseki Kagaku</i> , 2014, 63, 785-789.	0.2	0
44	Thermal Decomposition Behavior of a Chelating Resin Immobilizing Carboxymethylated Polyethyleneimine: Possibility of Estimation of Carboxymethylation Rate. <i>Analytical Sciences</i> , 2019, 35, 1161-1164.	1.6	0
45	Different Insights of Water Structure in Polymerâ€“Water Systems Observed by Vibrational Spectroscopic and Calorimetric Methods. <i>Oleoscience</i> , 2020, 20, 329-336.	0.0	0
46	Effect of Coexisting Organic Compounds on the Sorption of Inorganic Mercury(II) with Iron(II) Sulfide. <i>Bunseki Kagaku</i> , 2020, 69, 647-651.	0.2	0
47	Mid-infrared Spectroscopic Analysis of Water Structure in Solid Polymers. <i>Bunseki Kagaku</i> , 2022, 71, 235-246.	0.2	0