

Yoshitaka Takagai

List of Publications by Year in descending order

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58
papers

882
citations

567281

15
h-index

501196

28
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60
all docs

60
docs citations

60
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance liquid chromatographicâ€“spectrophotometric determination of copper(II) and palladium(II) with 5,10,15,20-tetrakis(4N-pyridyl)porphine following homogeneous liquidâ€“liquid extraction in the waterâ€“acetic acidâ€“chloroform ternary solvent system. <i>Analytica Chimica Acta</i> , 2000, 424, 263-269.	5.4	110
2	Synthesis and evaluation of different thio-modified cellulose resins for the removal of mercury (II) ion from highly acidic aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 593-597.	9.4	68
3	Sequential inductively coupled plasma quadrupole mass-spectrometric quantification of radioactive strontium-90 incorporating cascade separation steps for radioactive contamination rapid survey. <i>Analytical Methods</i> , 2014, 6, 355-362.	2.7	68
4	â€œTurn-onâ€•fluorescent polymeric microparticle sensors for the determination of ammonia and amines in the vapor state. <i>Analyst, The</i> , 2010, 135, 1417.	3.5	58
5	Cloud Point Extraction with Surfactant Derivatization as an Enrichment Step Prior to Gas Chromatographic or Gas Chromatographyâ€“Mass Spectrometric Analysis. <i>Analytical Chemistry</i> , 2009, 81, 7113-7122.	6.5	52
6	UV-detection capillary electrophoresis for benzo[a]pyrene and pyrene following a two-step concentration system using homogeneous liquidâ€“liquid extraction and a sweeping method. <i>Analyst, The</i> , 2001, 126, 551-552.	3.5	39
7	Split Flow Online Solid-Phase Extraction Coupled with Inductively Coupled Plasma Mass Spectrometry System for One-Shot Data Acquisition of Quantification and Recovery Efficiency. <i>Analytical Chemistry</i> , 2016, 88, 9397-9402.	6.5	26
8	Homogeneous liquidâ€“liquid extraction and micellar electrokinetic chromatography using sweeping effect concentration system for determination of trace amounts of several polycyclic aromatic hydrocarbons. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 87-92.	3.7	25
9	Adsorption and Desorption Properties of trans-Resveratrol on Cellulose Cotton. <i>Analytical Sciences</i> , 2005, 21, 183-186.	1.6	25
10	Determination of lower sub ppt levels of environmental analytes using high-powered concentration system and high-performance liquid chromatography with fluorescence detection. <i>Analyst, The</i> , 2004, 129, 396.	3.5	24
11	Determination of ppb Levels of Tryptophan Derivatives by Capillary Electrophoresis with Homogeneous Liquid-Liquid Extraction and Sweeping Method.. <i>Chemical and Pharmaceutical Bulletin</i> , 2003, 51, 373-377.	1.3	23
12	Powerful preconcentration method for capillary electrophoresis and its application to analysis of ultratrace amounts of polycyclic aromatic hydrocarbons. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 888-894.	3.7	22
13	Ultrasonic Mist Generation Assist Argon-Nitrogen Mix Gas Effect on Radioactive Strontium Quantification by Online Solid-Phase Extraction with Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Sciences</i> , 2018, 34, 471-476.	1.6	20
14	Determination of Characteristic vs Anomalous ¹³⁵ Cs/ ¹³⁷ Cs Isotopic Ratios in Radioactively Contaminated Environmental Samples. <i>Environmental Science & Technology</i> , 2021, 55, 4984-4991.	10.0	18
15	Adsorption behaviors of high-valence metal ions on desferrioxamine B immobilization nylon 6,6 chelate fiber under highly acidic conditions. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 359-362.	9.4	16
16	Simultaneous Determination of Iron(II) and Iron(III) by Micellar Electrokinetic Chromatography Using an Off-line Selective Complexing Reaction. <i>Analytical Sciences</i> , 2003, 19, 1207-1209.	1.6	15
17	Flow Injection Spectrophotometric Analysis of Human Salivary Î±-Amylase Activity Using an Enzyme Degradation of Starchâ€“Iodine Complexes in Flow Channel and Its Application to Human Stress Testing. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1857-1861.	1.4	15
18	Determination and Comparison of the Strontium-90 Concentrations in Topsoil of Fukushima Prefecture before and after the Fukushima Daiichi Nuclear Accident. <i>ACS Omega</i> , 2018, 3, 18028-18038.	3.5	15

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19	Rapid Quantification of Radioactive Strontium-90 in Fresh Foods via Online Solid-Phase Extraction—Inductively Coupled Plasma—Dynamic Reaction Cell-Mass Spectrometry and Its Comparative Evaluation with Conventional Radiometry. <i>ACS Omega</i> , 2019, 4, 11276-11284.	3.5	15
20	Preconcentration technique for nonylphenol using cellulose cotton with homogenous liquid-liquid extraction for liquid chromatographic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 351-354.	3.7	14
21	Selective Visual Determination of Vanadium(V) Ion in Highly Acidic Solution Using Desferrioxamine B Immobilization Cellulose. <i>Chemistry Letters</i> , 2007, 36, 136-137.	1.3	14
22	Evaluation of the potential of chitosan hydrogels to extract polar organic species from nonpolar organic solvents: Application to the extraction of aminopyridines from hexane. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 38-44.	9.4	14
23	Sequential Injection Analysis System Exploiting On-line Solid-phase Extraction for the Determination of Strontium and Nickel by Microwave Plasma Atomic Emission Spectrometry. <i>Analytical Sciences</i> , 2018, 34, 387-390.	1.6	14
24	Selective Extraction and Isolation of Vitamin B12 Using Homogeneous Liquid-Liquid Extraction with Perfluoro Surfactant. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 1595-1600.	3.2	13
25	Isotope Ratio Analysis of ²³⁵ U and ²³⁸ U Nuclide Using a Microwave Digestion Associated with ICP-MS and the Large Areal Soil Survey Related to Fukushima Daiichi Nuclear Disaster. <i>Bunseki Kagaku</i> , 2011, 60, 947-957.	0.2	13
26	HPLC-spectrophotometric detection of trace heavy metals via cascade™ separation and concentration. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 135-144.	3.3	12
27	On-line pseudo-stationary magnetic solid-phase extraction using magnetic cation exchange microparticles and its application to the determination of strontium. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1251-1255.	3.0	11
28	Isotope Dilution—Total Evaporation—Thermal Ionization Mass Spectrometric Direct Determination of Radioactive Strontium-90 in Microdrop Samples. <i>Analytical Chemistry</i> , 2020, 92, 16058-16065.	6.5	10
29	Gas chromatography-mass spectrometric determination of ivermectin following trimethylsilylation with application to residue analysis in biological meat tissue samples. <i>Analytical Methods</i> , 2011, 3, 2160.	2.7	8
30	One-pot synthesis with in situ preconcentration of spherical monodispersed gold nanoparticles using thermoresponsive 3-(alkyldimethylammonio)-propyl sulfate zwitterionic surfactants. <i>Chemical Communications</i> , 2016, 52, 10000-10003.	4.1	8
31	Certified reference materials of agricultural products and foods bearing radioactivity from the Fukushima nuclear accident. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 2421-2426.	1.5	8
32	Separation, Detection, and Functional Materials. HPLC spectrophotometric determination of metal-porphyrin complexes following a preconcentration method by homogeneous liquid-liquid extraction in a water/pyridine/ethyl chloroacetate ternary component system.. <i>Bunseki Kagaku</i> , 1999, 48, 1115-1121.	0.2	7
33	Simple Radiometric Determination of Strontium-90 in Seawater Using Measurement of Yttrium-90 Decay Time Following Iron-Barium Co-precipitation. <i>Analytical Sciences</i> , 2018, 34, 1277-1283.	1.6	7
34	Quenching-Chemiluminescence Determination of Trace Amounts of L-Tyrosine Contained in Dietary Supplement by Chemiluminescence Reaction of an Iron-Phthalocyanine Complex. <i>Journal of Analytical Methods in Chemistry</i> , 2012, 2012, 1-5.	1.6	6
35	Synthesis and Evaluation of Reusable Desferrioxamine B Immobilized on Polymeric Spherical Microparticles for Uranium Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17928-17936.	3.7	6
36	A part per trillion isotope ratio analysis of ⁹⁰ Sr/ ⁸⁸ Sr using energy-filtered thermal ionization mass spectrometry. <i>Scientific Reports</i> , 2022, 12, 1151.	3.3	6

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37	Using CO ₂ Reactions to Achieve Mass-spectrometric Discrimination in Simultaneous Plutonium-isotope Speciation with Inductively Coupled Plasma Tandem Mass Spectrometry. <i>Chemistry Letters</i> , 2022, 51, 678-682.	1.3	6
38	Internal Standard Corrected Signal Integration Method for Determination of Radioactive Strontium by Online Solid Phase Extraction/ICP-MS. <i>Bunseki Kagaku</i> , 2017, 66, 181-187.	0.2	5
39	Radioactive Strontium Measurement Using ICP-MS Following Cascade Preconcentration and Separation System. <i>Bunseki Kagaku</i> , 2017, 66, 223-231.	0.2	5
40	Nanoparticle induced formation of self-assembled zwitterionic surfactant microdomains which mimic microemulsions for the <i>in situ</i> fabrication and dispersion of silver nanoparticles. <i>RSC Advances</i> , 2020, 10, 34161-34166.	3.6	5
41	β -Cyclodextrin as a Metal-anionic Porphyrin Complexation Accelerator in Aqueous Media. <i>Analytical Sciences</i> , 2016, 32, 623-629.	1.6	4
42	Development of Online Dilution System for Quantification of ⁹⁰ Sr Using Automatic Solid-phase Extraction Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Sciences</i> , 2020, 36, 1131-1135.	1.6	4
43	Determination of Chlorophenol Derivatives Using the Homogeneous Liquid-liquid Extraction in Ternary Component System-GC/MS Method. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 2000, 2000, 291-293.	0.1	3
44	Simple Synthesis of Gold Nanoparticles by Sodium Borohydride Reduction Method and Their Ligand Exchange Reaction. <i>Bunseki Kagaku</i> , 2019, 68, 751-755.	0.2	3
45	Synthesis and evaluation of a diethylammonio-propylsulfate amphoteric ionic column for the high-performance liquid chromatography-mass spectrometric separation and detection of amino acids. <i>Journal of Chromatography A</i> , 2020, 1621, 461033.	3.7	3
46	Shape- and Size-Controlled Fabrication of Gold Nano-Urchins via Use of a Mixed Sodium Borohydride and Ascorbic Acid Reductant System. <i>Langmuir</i> , 2021, 37, 10702-10707.	3.5	3
47	Online solid-phase extraction inductively coupled plasma quadrupole mass spectrometric quantification of ⁹⁰ Sr using ⁸⁸ Sr/ ⁸⁶ Sr isotope dilution method. <i>Talanta</i> , 2022, 244, 123442.	5.5	3
48	Development of a Cascade Preconcentration and Separation System for High-powered Condensation and Its Application to Analytical Chemistry. <i>Bunseki Kagaku</i> , 2013, 62, 317-323.	0.2	2
49	Unique aluminosilicate-based natural nanoparticles in the volcanogenic Goshiki-numa pond. <i>Environmental Chemistry Letters</i> , 2016, 14, 565-569.	16.2	2
50	Online Solid-Phase Extraction Inductively Coupled Plasma Quadrupole Mass Spectrometry with Oxygen Dynamic Reaction for Quantification of Technetium-99. <i>ACS Omega</i> , 2021, 6, 19281-19290.	3.5	2
51	Adsorption Behavior of Pu(IV), Am(III), Cm(III), and U(VI) on Desferrioxamine B-immobilized Micropolymer and Its Applications in the Separation of Pu(IV). <i>Analytical Sciences</i> , 2021, 37, 1641-1644.	1.6	2
52	Comparison of Germanium Semiconductor Detector and NaI Scintillation Detector in Brown Rice Analysis Relative to Accident of Tokyo Electric Power Company, Fukushima Daiichi Nuclear Power Station. <i>Bunseki Kagaku</i> , 2013, 62, 521-526.	0.2	1
53	Rapid Measurement of Strontium-90 Using ICP-MS High Performance Sequential Analyzer for ¹²⁵ I-ray Emitter Nuclide of Several Ten-Years Half-Life. <i>Radioisotopes</i> , 2018, 67, 17-30.	0.2	1
54	Rapid Micelle-Mediated Size-Controlled Fabrication of Calcium Sulfate Nanorods Using Silver Nanoparticles. <i>Langmuir</i> , 2020, 36, 7456-7462.	3.5	1

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55	Estimate the contribution of water-derived ¹³⁷ Cs in the total ¹³⁷ Cs in brown rice using water-to-brown rice transfer parameters and the ratio of ¹³⁷ Cs/ ¹³³ Cs. Soil Science and Plant Nutrition, 2022, 68, 329-338.	1.9	1
56	Development of Metal-Isolable Polymer-Gel Sorbent for Mutual Separation of Ti, V, Zr, Nb, Mo, Ta, and W. Journal of MMIJ, 2012, 128, 248-254.	0.3	0
57	Distribution of Radiocaesium in Cattle body ^ ^mdash;Analysis Using a Compartment Model^ ^mdash;. Radioisotopes, 2013, 62, 281-290.	0.2	0
58	Sensitivity enhancement in inductively coupled plasma mass spectrometry using nebulization methods via nitrogen mixed gas effect. Analytical Sciences, 0, , .	1.6	0