

Masahiko Numata

List of Publications by Year in descending order

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66
papers

830
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471509

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#	ARTICLE	IF	CITATIONS
1	Determination of Mogroside V in Luohanguo Extract for Daily Quality Control Operation Using Relative Molar Sensitivity to Single-Reference Caffeine. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 18-25.	1.3	4
2	Use of Relative Molar Sensitivity as a Specific Value for Evaluating Heptaoxyethylene Dodecyl Ether Concentrations in Methanol Solution. <i>Analytical Sciences</i> , 2021, 37, 917-919.	1.6	2
3	Advanced approaches and applications of qNMR. <i>Metrologia</i> , 2020, 57, 014004.	1.2	7
4	Development of nuclear magnetic resonance as a tool of quantitative analysis for organic materials. <i>Metrologia</i> , 2019, 56, 054002.	1.2	10
5	Enhancing the accuracy of measurement of small molecule organic biomarkers. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7341-7355.	3.7	8
6	Relative molar sensitivities of carnosol and carnosic acid with respect to diphenylamine allow accurate quantification of antioxidants in rosemary extract. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2019, 36, 203-211.	2.3	7
7	Determination of perillaldehyde in perilla herbs using relative molar sensitivity to single-reference diphenyl sulfone. <i>Journal of Natural Medicines</i> , 2019, 73, 566-576.	2.3	20
8	Characterization of water in methylcyclohexane as a certified reference material for determination of trace water content in liquids. <i>Metrologia</i> , 2019, 56, 034004.	1.2	3
9	Conventional and new traceability schemes of organic standards for safe water supply in Japan. <i>Metrologia</i> , 2019, 56, 034002.	1.2	3
10	HPLC/PDA determination of carminic acid and 4-aminocarminic acid using relative molar sensitivities with respect to caffeine. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 838-847.	2.3	15
11	Certified reference material for the determination of perfluorooctane sulfonate in acrylonitrile-butadiene-styrene resin (NMJJ CRM 8155-a). <i>International Journal of Environmental Analytical Chemistry</i> , 2018, 98, 56-66.	3.3	2
12	Characterization of a Heptaoxyethylene Dodecyl Ether Standard Solution by a Combination of ¹ H Quantitative NMR Spectroscopy and HPLC. <i>Bunseki Kagaku</i> , 2018, 67, 541-549.	0.2	4
13	Development of a Certified Reference Material "NMJJ CRM 4228" for the Determination of Water Content in Liquids. <i>Bunseki Kagaku</i> , 2018, 67, 619-624.	0.2	2
14	Application of post-column reaction GC for accurate and direct determination of musty odor substances in standard solution. <i>Accreditation and Quality Assurance</i> , 2018, 23, 297-302.	0.8	5
15	Pseudo-Infected Red Blood Cell Beads as Positive Control for Cell Microarray Chip-Based Detection of <i>Plasmodium</i> -Infected RBCs. <i>Journal of Parasitology</i> , 2018, 104, 283-288.	0.7	1
16	Direct Determination of Total Anionic Surfactant Concentrations by Quantitative NMR Spectroscopy. <i>Bunseki Kagaku</i> , 2018, 67, 397-403.	0.2	0
17	Determination of PAHs in Solution with a Single Reference Standard by a Combination of ¹ H Quantitative NMR Spectroscopy and Chromatography. <i>Analytical Chemistry</i> , 2017, 89, 6963-6968.	6.5	25
18	Elemental Analysis of Biodiesel by Inductively Coupled Plasma Optical Emission and Flame Atomic Absorption Spectrometries. <i>Analytical Letters</i> , 2017, 50, 1335-1344.	1.8	2

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19	Simultaneous Direct Determinations of Na, Mg, K, Ca, P, and S in Biodiesel Fuel by ICP-QMS/QMS after Xylene Dilution: Development and Application of a High-throughput Method for a Homogeneity Assessment of a Candidate Reference Material. <i>Analytical Sciences</i> , 2017, 33, 209-215.	1.6	5
20	Proficiency Testing for Quantification of Pesticide Residues in Treated Brown Rice Samples: Comparison of Performance of Japanese Official Multiresidue, Modified QuEChERS, and QuEChERS Methods. <i>Journal of AOAC INTERNATIONAL</i> , 2016, 99, 821-829.	1.5	12
21	Development of human serum certified reference material for quantification of polychlorinated biphenyls. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 1378-1388.	3.3	2
22	Characterization of water content in biodiesel fuel certified reference material (NMIJ CRM 8302-a). <i>Accreditation and Quality Assurance</i> , 2016, 21, 361-366.	0.8	7
23	Accurate Characterization of Sulfur in Biodiesel Fuel Certified Reference Material. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 317-321.	0.6	5
24	Study of Purity Determination of Organic Compounds with 60 MHz Benchtop NMR. <i>Bunseki Kagaku</i> , 2015, 64, 51-54.	0.2	0
25	Fast GC Analysis of Fatty Acid Methyl Esters Using a Highly Polar Ionic Liquid Column and its Application for the Determination of Trans Fatty Acid Contents in Edible Oils. <i>Chromatographia</i> , 2015, 78, 291-295.	1.3	15
26	Certification of reference materials for the determination of alkylphenols. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3239-3247.	3.7	4
27	Development of a reliable method to determine water content by headspace gas chromatography/mass spectrometry with the standard addition technique. <i>Analytical Methods</i> , 2015, 7, 4816-4820.	2.7	17
28	Proficiency testing for determination of pesticide residues in soybean: Comparison of assigned values from participants ^{x3} results and isotope-dilution mass spectrometric determination. <i>Talanta</i> , 2015, 132, 269-277.	5.5	23
29	Evaluation of the performance of 57 Japanese participating laboratories by two types of z-scores in proficiency test for the quantification of pesticide residues in brown rice. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7337-7344.	3.7	14
30	Variation in concentration of perfluorooctanoic acid in methanol solutions during storage. <i>Chemosphere</i> , 2014, 94, 116-120.	8.2	9
31	Development of soybean certified reference material for pesticide residue analysis. <i>Talanta</i> , 2014, 119, 255-261.	5.5	30
32	Evaluation of perfluorooctanoic acid purity based on potentiometric titration. <i>Analytical Methods</i> , 2014, 6, 3177-3182.	2.7	3
33	Development of a certified reference material for the determination of perfluorooctanoic acid. <i>Accreditation and Quality Assurance</i> , 2014, 19, 391-396.	0.8	2
34	Certification of water content in NMIJ CRM 4222-a, water standard solution 0.1 mg g ⁻¹ , by coulometric and volumetric Karl Fischer titration. <i>Analytical Methods</i> , 2014, 6, 2785-2790.	2.7	16
35	A Certified Urea Reference Material (NMIJ CRM 6006-a) as a Reliable Calibrant for the Elemental Analyses of Amino Acids and Food Samples. <i>Analytical Sciences</i> , 2014, 30, 471-476.	1.6	2
36	Development of High Purity Dibutyl Sulfide Certified Reference Material (NMIJ CRM 4221-a) for Determination of Sulfur in Fuels. <i>Journal of the Japan Petroleum Institute</i> , 2014, 57, 78-83.	0.6	2

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37	Influence of desorption and sorption of water on the purity of perfluorooctanoic acid. Accreditation and Quality Assurance, 2013, 18, 137-142.	0.8	3
38	Development of apple certified reference material for quantification of organophosphorus and pyrethroid pesticides. Food Chemistry, 2013, 138, 1243-1249.	8.2	30
39	Characterization of a certified reference material (NMIJ CRM 8301-a) for determination of Cu in bio-ethanol. Fuel, 2013, 103, 736-741.	6.4	4
40	Certified calibration solution reference material for the determination of perfluorooctane sulfonate from the National Metrology Institute of Japan (NMIJ). International Journal of Environmental Analytical Chemistry, 2013, 93, 692-705.	3.3	5
41	Determination of Sulfur in Bioethanol Certified Reference Material. Journal of the Japan Petroleum Institute, 2013, 56, 171-175.	0.6	6
42	Characterization of Certified Reference Material for the Quantification of Water in Bioethanol. Analytical Sciences, 2012, 28, 1089-1095.	1.6	13
43	Development of Green Onion and Cabbage Certified Reference Materials for Quantification of Organophosphorus and Pyrethroid Pesticides. Journal of Agricultural and Food Chemistry, 2011, 59, 8568-8574.	5.2	21
44	Purity Evaluation of Alkylphenol Primary Standards Based on Japan Calibration Service System by Subtraction Method. Bunseki Kagaku, 2011, 60, 877-884.	0.2	4
45	Mass balance method for purity assay of phthalic acid esters: development of primary reference materials as traceability sources in the Japan Calibration Service System. Accreditation and Quality Assurance, 2011, 16, 311-322.	0.8	39
46	Certified reference material for quantification of polycyclic aromatic hydrocarbons and toxic elements in tunnel dust (NMIJ CRM 7308-a) from the National Metrology Institute of Japan. Analytical and Bioanalytical Chemistry, 2011, 401, 2909-2918.	3.7	5
47	Accurate quantification of polycyclic aromatic hydrocarbons in dust samples using microwave-assisted solvent extraction combined with isotope-dilution mass spectrometry. Analytica Chimica Acta, 2011, 699, 49-56.	5.4	16
48	Measurement of chlorine stable isotopic composition by negative thermal ionization mass spectrometry using total evaporation technique. Geochemical Journal, 2010, 44, 241-246.	1.0	7
49	Alkaline extraction in combination with microwave-assisted extraction followed by solid-phase extraction treatment for polycyclic aromatic hydrocarbons in a sediment sample. Analytica Chimica Acta, 2008, 615, 47-53.	5.4	20
50	Mineral oil certified reference materials for the determination of polychlorinated biphenyls from the National Metrology Institute of Japan (NMIJ). Analytical and Bioanalytical Chemistry, 2008, 391, 1985-1995.	3.7	2
51	Comparison of low-level polycyclic aromatic hydrocarbons in sediment revealed by Soxhlet extraction, microwave-assisted extraction, and pressurized liquid extraction. Analytica Chimica Acta, 2008, 612, 44-52.	5.4	50
52	Preparation of a sulfoxide group and ammonium-salt bonded silica stationary phase for separation of polychlorinated biphenyls from mineral oils. Journal of Chromatography A, 2008, 1210, 68-75.	3.7	16
53	Evaluation of Microwave-Assisted Extraction for the Analysis of Polychlorinated Biphenyls and Organochlorine Pesticides in Fish. Journal of AOAC INTERNATIONAL, 2008, 91, 1124-1129.	1.5	8
54	Preparation of Sulfoxide Residue Bonded Silica Stationary Phase for Separation of Polychlorinated Biphenyls from Mineral Oils. Analytical Chemistry, 2007, 79, 9211-9217.	6.5	23

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55	Sediment certified reference materials for the determination of polychlorinated biphenyls and organochlorine pesticides from the National Metrology Institute of Japan (NMIJ). <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2313-2323.	3.7	30
56	Matrix certified reference materials for environmental monitoring from the National Metrology Institute of Japan (NMIJ). <i>Accreditation and Quality Assurance</i> , 2007, 12, 156-160.	0.8	17
57	Evaluation of Supercritical Fluid Extraction for Isotope Dilution Gas Chromatography-Mass Spectrometric Quantification of Polychlorinated Biphenyls in Sediment. <i>Analytical Sciences</i> , 2006, 22, 1449-1454.	1.6	4
58	Separation of Polychlorinated Biphenyls from Mineral Oil Using Alkylammonium Ion-Bonded Silica Stationary Phases. <i>Analytical Sciences</i> , 2006, 22, 785-788.	1.6	3
59	Development of a Method for the Determination of Organic Contaminants in Biological Tissue and Its Application to International Comparisons. <i>Bunseki Kagaku</i> , 2006, 55, 29-40.	0.2	0
60	Investigation of saponification for determination of polychlorinated biphenyls in marine sediments. <i>Chemosphere</i> , 2005, 58, 865-875.	8.2	16
61	Evaluation of a Microwave-Assisted Extraction Technique for the Determination of Polychlorinated Biphenyls and Organochlorine Pesticides in Sediments. <i>Analytical Sciences</i> , 2004, 20, 793-798.	1.6	21
62	Microwave-Assisted Steam Distillation for Simple Determination of Polychlorinated Biphenyls and Organochlorine Pesticides in Sediments. <i>Analytical Chemistry</i> , 2003, 75, 1450-1457.	6.5	37
63	Determination of polychlorinated biphenyls in sediment by isotope-dilution gas chromatography/mass spectrometry with pressurized fluid extraction. <i>Bunseki Kagaku</i> , 2003, 52, 1011-1017.	0.2	7
64	Chlorine stable isotope measurements of chlorinated aliphatic hydrocarbons by thermal ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2002, 455, 1-9.	5.4	28
65	Chlorine Isotope Fractionation during Reductive Dechlorination of Chlorinated Ethenes by Anaerobic Bacteria. <i>Environmental Science & Technology</i> , 2002, 36, 4389-4394.	10.0	61
66	Precise measurement of chlorine stable isotopic ratios by thermal ionization mass spectrometry.. <i>Geochemical Journal</i> , 2001, 35, 89-100.	1.0	27