

# Masahiko Numata

## List of Publications by Year in descending order

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66  
papers

830  
citations

471509

17  
h-index

580821

25  
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68  
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68  
docs citations

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times ranked

642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chlorine Isotope Fractionation during Reductive Dechlorination of Chlorinated Ethenes by Anaerobic Bacteria. <i>Environmental Science &amp; Technology</i> , 2002, 36, 4389-4394.	10.0	61
2	Comparison of low-level polycyclic aromatic hydrocarbons in sediment revealed by Soxhlet extraction, microwave-assisted extraction, and pressurized liquid extraction. <i>Analytica Chimica Acta</i> , 2008, 612, 44-52.	5.4	50
3	Mass balance method for purity assay of phthalic acid esters: development of primary reference materials as traceability sources in the Japan Calibration Service System. <i>Accreditation and Quality Assurance</i> , 2011, 16, 311-322.	0.8	39
4	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
5	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
6	Development of apple certified reference material for quantification of organophosphorus and pyrethroid pesticides. <i>Food Chemistry</i> , 2013, 138, 1243-1249.	8.2	30
7	Development of soybean certified reference material for pesticide residue analysis. <i>Talanta</i> , 2014, 119, 255-261.	5.5	30
8	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
9	Precise measurement of chlorine stable isotopic ratios by thermal ionization mass spectrometry.. <i>Geochemical Journal</i> , 2001, 35, 89-100.	1.0	27
10	Determination of PAHs in Solution with a Single Reference Standard by a Combination of <sup>1</sup> H Quantitative NMR Spectroscopy and Chromatography. <i>Analytical Chemistry</i> , 2017, 89, 6963-6968.	6.5	25
11	Preparation of Sulfoxide Residue Bonded Silica Stationary Phase for Separation of Polychlorinated Biphenyls from Mineral Oils. <i>Analytical Chemistry</i> , 2007, 79, 9211-9217.	6.5	23
12	Proficiency testing for determination of pesticide residues in soybean: Comparison of assigned values from participants' results and isotope-dilution mass spectrometric determination. <i>Talanta</i> , 2015, 132, 269-277.	5.5	23
13	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
14	Development of Green Onion and Cabbage Certified Reference Materials for Quantification of Organophosphorus and Pyrethroid Pesticides. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8568-8574.	5.2	21
15	Alkaline extraction in combination with microwave-assisted extraction followed by solid-phase extraction treatment for polycyclic aromatic hydrocarbons in a sediment sample. <i>Analytica Chimica Acta</i> , 2008, 615, 47-53.	5.4	20
16	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
17	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
18	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

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19	Investigation of saponification for determination of polychlorinated biphenyls in marine sediments. <i>Chemosphere</i> , 2005, 58, 865-875.	8.2	16
20	Preparation of a sulfoxide group and ammonium-salt bonded silica stationary phase for separation of polychlorinated biphenyls from mineral oils. <i>Journal of Chromatography A</i> , 2008, 1210, 68-75.	3.7	16
21	Accurate quantification of polycyclic aromatic hydrocarbons in dust samples using microwave-assisted solvent extraction combined with isotope-dilution mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 699, 49-56.	5.4	16
22	Certification of water content in NMIJ CRM 4222-a, water standard solution 0.1 mg g <sup>-1</sup> , by coulometric and volumetric Karl Fischer titration. <i>Analytical Methods</i> , 2014, 6, 2785-2790.	2.7	16
23	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
24	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
25	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
26	Characterization of Certified Reference Material for the Quantification of Water in Bioethanol. <i>Analytical Sciences</i> , 2012, 28, 1089-1095.	1.6	13
27	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
28	Development of nuclear magnetic resonance as a tool of quantitative analysis for organic materials. <i>Metrologia</i> , 2019, 56, 054002.	1.2	10
29	Variation in concentration of perfluorooctanoic acid in methanol solutions during storage. <i>Chemosphere</i> , 2014, 94, 116-120.	8.2	9
30	Evaluation of Microwave-Assisted Extraction for the Analysis of Polychlorinated Biphenyls and Organochlorine Pesticides in Fish. <i>Journal of AOAC INTERNATIONAL</i> , 2008, 91, 1124-1129.	1.5	8
31	Enhancing the accuracy of measurement of small molecule organic biomarkers. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7341-7355.	3.7	8
32	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
33	Measurement of chlorine stable isotopic composition by negative thermal ionization mass spectrometry using total evaporation technique. <i>Geochemical Journal</i> , 2010, 44, 241-246.	1.0	7
34	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
35	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
36	Advanced approaches and applications of qNMR. <i>Metrologia</i> , 2020, 57, 014004.	1.2	7

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37	Determination of Sulfur in Bioethanol Certified Reference Material. Journal of the Japan Petroleum Institute, 2013, 56, 171-175.	0.6	6
38	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
39	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
40	Accurate Characterization of Sulfur in Biodiesel Fuel Certified Reference Material. Journal of the Japan Petroleum Institute, 2016, 59, 317-321.	0.6	5
41	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. Analytical Sciences, 2017, 33, 209-215.	1.6	5
42	Application of post-column reaction GC for accurate and direct determination of musty odor substances in standard solution. Accreditation and Quality Assurance, 2018, 23, 297-302.	0.8	5
43	Evaluation of Supercritical Fluid Extraction for Isotope Dilution Gas Chromatography-Mass Spectrometric Quantification of Polychlorinated Biphenyls in Sediment. Analytical Sciences, 2006, 22, 1449-1454.	1.6	4
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	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
46	Certification of reference materials for the determination of alkylphenols. Analytical and Bioanalytical Chemistry, 2015, 407, 3239-3247.	3.7	4
47	Characterization of a Heptaoxyethylene Dodecyl Ether Standard Solution by a Combination of <sup>1</sup> H Quantitative NMR Spectroscopy and HPLC. Bunseki Kagaku, 2018, 67, 541-549.	0.2	4
48	Determination of Mogroside V in Luohanguo Extract for Daily Quality Control Operation Using Relative Molar Sensitivity to Single-Reference Caffeine. Chemical and Pharmaceutical Bulletin, 2021, 69, 18-25.	1.3	4
49	Separation of Polychlorinated Biphenyls from Mineral Oil Using Alkylammonium Ion-Bonded Silica Stationary Phases. Analytical Sciences, 2006, 22, 785-788.	1.6	3
50	Influence of desorption and sorption of water on the purity of perfluorooctanoic acid. Accreditation and Quality Assurance, 2013, 18, 137-142.	0.8	3
51	Evaluation of perfluorooctanoic acid purity based on potentiometric titration. Analytical Methods, 2014, 6, 3177-3182.	2.7	3
52	Characterization of water in methylcyclohexane as a certified reference material for determination of trace water content in liquids. Metrologia, 2019, 56, 034004.	1.2	3
53	Conventional and new traceability schemes of organic standards for safe water supply in Japan. Metrologia, 2019, 56, 034002.	1.2	3
54	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

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55	Development of a certified reference material for the determination of perfluorooctanoic acid. Accreditation and Quality Assurance, 2014, 19, 391-396.	0.8	2
56	A Certified Urea Reference Material (NMIJ CRM 6006-a) as a Reliable Calibrant for the Elemental Analyses of Amino Acids and Food Samples. Analytical Sciences, 2014, 30, 471-476.	1.6	2
57	Development of human serum certified reference material for quantification of polychlorinated biphenyls. International Journal of Environmental Analytical Chemistry, 2016, 96, 1378-1388.	3.3	2
58	Elemental Analysis of Biodiesel by Inductively Coupled Plasma Optical Emission and Flame Atomic Absorption Spectrometries. Analytical Letters, 2017, 50, 1335-1344.	1.8	2
59	Certified reference material for the determination of perfluorooctane sulfonate in acrylonitrile-butadiene-styrene resin (NMIJ CRM 8155-a). International Journal of Environmental Analytical Chemistry, 2018, 98, 56-66.	3.3	2
60	Development of a Certified Reference Material "NMIJ CRM 4228-a" for the Determination of Water Content in Liquids. Bunseki Kagaku, 2018, 67, 619-624.	0.2	2
61	Use of Relative Molar Sensitivity as a Specific Value for Evaluating Heptaoxyethylene Dodecyl Ether Concentrations in Methanol Solution. Analytical Sciences, 2021, 37, 917-919.	1.6	2
62	Development of High Purity Dibutyl Sulfide Certified Reference Material (NMIJ CRM 4221-a) for Determination of Sulfur in Fuels. Journal of the Japan Petroleum Institute, 2014, 57, 78-83.	0.6	2
63	Pseudo-Infected Red Blood Cell Beads as Positive Control for Cell Microarray Chip-Based Detection of <i>Plasmodium</i> -Infected RBCs. Journal of Parasitology, 2018, 104, 283-288.	0.7	1
64	Study of Purity Determination of Organic Compounds with 60 MHz Benchtop NMR. Bunseki Kagaku, 2015, 64, 51-54.	0.2	0
65	Direct Determination of Total Anionic Surfactant Concentrations by Quantitative NMR Spectroscopy. Bunseki Kagaku, 2018, 67, 397-403.	0.2	0
66	Development of a Method for the Determination of Organic Contaminants in Biological Tissue and Its Application to International Comparisons. Bunseki Kagaku, 2006, 55, 29-40.	0.2	0