

Hajime Miyaguchi

List of Publications by Year in descending order

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73
papers

1,175
citations

361413

20
h-index

454955

30
g-index

73
all docs

73
docs citations

73
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid identification and quantification of methamphetamine and amphetamine in hair by gas chromatography/mass spectrometry coupled with micropulverized extraction, aqueous acetylation and microextraction by packed sorbent. <i>Journal of Chromatography A</i> , 2009, 1216, 4063-4070.	3.7	87
2	Development of a micropulverized extraction method for rapid toxicological analysis of methamphetamine in hair. <i>Journal of Chromatography A</i> , 2007, 1163, 43-48.	3.7	55
3	Microchip-based liquid-liquid extraction for gas-chromatography analysis of amphetamine-type stimulants in urine. <i>Journal of Chromatography A</i> , 2006, 1129, 105-110.	3.7	52
4	Rapid analysis of methamphetamine in hair by micropulverized extraction and microchip-based competitive ELISA. <i>Forensic Science International</i> , 2009, 184, 1-5.	2.2	52
5	A method for screening for various sedative-hypnotics in serum by liquid chromatography/single quadrupole mass spectrometry. <i>Forensic Science International</i> , 2006, 157, 57-70.	2.2	48
6	Determination of muscimol and ibotenic acid in Amanita mushrooms by high-performance liquid chromatography and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 852, 430-435.	2.3	40
7	Determination of amphetamine-type stimulants, cocaine and ketamine in human hair by liquid chromatography/linear ion trap-Orbitrap hybrid mass spectrometry. <i>Analyst, The</i> , 2011, 136, 3503.	3.5	40
8	Time-course measurements of caffeine and its metabolites extracted from fingertips after coffee intake: a preliminary study for the detection of drugs from fingerprints. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3945-3952.	3.7	35
9	Three-step drug extraction from a single sub-millimeter segment of hair and nail to determine the exact day of drug intake. <i>Analytica Chimica Acta</i> , 2016, 948, 40-47.	5.4	33
10	Simple and simultaneous detection of methamphetamine and dimethyl sulfone in crystalline methamphetamine seizures by fast gas chromatography. <i>Forensic Toxicology</i> , 2008, 26, 19-22.	2.4	29
11	Micro-segmental hair analysis for proving drug-facilitated crimes: Evidence that a victim ingested a sleeping aid, diphenhydramine, on a specific day. <i>Forensic Science International</i> , 2018, 288, 23-28.	2.2	29
12	Rapid, simple, and highly sensitive analysis of drugs in biological samples using thin-layer chromatography coupled with matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1257-1267.	3.7	27
13	Profiling of seized methamphetamine putatively synthesized by reductive amination of 1-phenyl-2-propanone. <i>Forensic Toxicology</i> , 2012, 30, 70-75.	2.4	25
14	Effectiveness of saliva and fingerprints as alternative specimens to urine and blood in forensic drug testing. <i>Drug Testing and Analysis</i> , 2016, 8, 644-651.	2.6	25
15	Time-course measurements of drug concentrations in hair and toenails after single administrations of pharmaceutical products. <i>Drug Testing and Analysis</i> , 2017, 9, 571-577.	2.6	25
16	Determination of zolpidem in human hair by micropulverized extraction based on the evaluation of relative extraction efficiency of seven psychoactive drugs from an incurred human hair specimen. <i>Journal of Chromatography A</i> , 2013, 1293, 28-35.	3.7	24
17	Micro-pulverized extraction pretreatment for highly sensitive analysis of 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol in hair by liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2158-2166.	1.5	22
18	Strong evidence of drug-facilitated crimes by hair analysis using LC-MS/MS after micro-segmentation. <i>Forensic Toxicology</i> , 2019, 37, 480-487.	2.4	22

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19	Analysis of amphetamine-type stimulants and their metabolites in plasma, urine and bile by liquid chromatography with a strong cation-exchange column-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 867, 78-83.	2.3	20
20	Development of an on-site screening system for amphetamine-type stimulant tablets with a portable attenuated total reflection Fourier transform infrared spectrometer. <i>Analytica Chimica Acta</i> , 2008, 608, 95-103.	5.4	20
21	Distribution measurements of 3,4-methylenedioxyamphetamine and its metabolites in organs by matrix-assisted laser desorption/ionization imaging mass spectrometry using an automatic matrix spraying system with an air brush and a turntable. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1823-1830.	3.7	20
22	Approaching over 10 ⁴ -fold sensitivity increase in chiral capillary electrophoresis: Cation-selective exhaustive injection and sweeping cyclodextrin-modified micellar electrokinetic chromatography. <i>Electrophoresis</i> , 2016, 37, 2970-2976.	2.4	19
23	Different localizations of drugs simultaneously administered in a strand of hair by micro-segmental analysis. <i>Drug Testing and Analysis</i> , 2018, 10, 750-760.	2.6	19
24	In Vivo Metabolism of 5-Methoxy-N,N-diisopropyltryptamine in Rat. <i>Journal of Health Science</i> , 2006, 52, 425-430.	0.9	18
25	Time-course measurements of drugs and metabolites transferred from fingertips after drug administration: usefulness of fingerprints for drug testing. <i>Forensic Toxicology</i> , 2014, 32, 235-242.	2.4	18
26	Identification and differentiation of methcathinone analogs by gas chromatography-mass spectrometry. <i>Drug Testing and Analysis</i> , 2013, 5, 670-677.	2.6	17
27	Simple colorimetric screening of the nerve agent VX using gold nanoparticles and a hand-powered extraction device. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128902.	7.8	17
28	Accurate Estimation of Drug Intake Day by Microsegmental Analysis of a Strand of Hair by Use of Internal Temporal Markers. <i>Journal of applied laboratory medicine</i> , The, 2018, 3, 37-47.	1.3	16
29	A Fatal Case of Suspected Anaphylaxis with Cefoperazone and Sulbactam: LC-MS Analysis. <i>Journal of Forensic Sciences</i> , 2008, 53, 226-231.	1.6	15
30	Thermal desorption counter-flow introduction atmospheric pressure chemical ionization for direct mass spectrometry of ecstasy tablets. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1300-1307.	1.6	14
31	Analysis of degradation products of nerve agents via post-pentafluorobenzoylation liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1577, 31-37.	3.7	14
32	Analysis of degradation products of nitrogen mustards via hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2019, 1602, 199-205.	3.7	14
33	Urinary Excretion Profiles of Two Major Triazolam Metabolites \pm -Hydroxytriazolam and 4-Hydroxytriazolam. <i>Journal of Analytical Toxicology</i> , 2005, 29, 240-243.	2.8	12
34	Homogeneity and stability of a candidate certified reference material for the determination of methamphetamine and amphetamine in hair. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 1037-1041.	2.8	12
35	Seized methamphetamine samples with unique profiles of stable nitrogen isotopic composition documented by stable isotope ratio mass spectrometry. <i>Forensic Toxicology</i> , 2010, 28, 119-123.	2.4	12
36	Estimation of day of death using micro-segmental hair analysis based on drug use history: a case of lidocaine use as a marker. <i>International Journal of Legal Medicine</i> , 2019, 133, 117-122.	2.2	12

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37	Paper-Based Analytical Device for the On-Site Detection of Nerve Agents. ACS Applied Bio Materials, 2021, 4, 6512-6518.	4.6	12
38	Theoretical evaluation of the hydrolysis of conventional nerve agents and novichok agents. Chemical Physics Letters, 2021, 785, 139116.	2.6	12
39	Micro-segmental hair analysis: detailed procedures and applications in forensic toxicology. Forensic Toxicology, 2022, 40, 215-233.	2.4	12
40	Interaction of 3,4-Methylenedioxymethamphetamine and Methamphetamine During Metabolism by <i>In Vitro</i> Human Metabolic Enzymes and in Rats*. Journal of Forensic Sciences, 2012, 57, 1008-1013.	1.6	11
41	Comparison of sample preparation methods for zolpidem extraction from hair. Forensic Toxicology, 2015, 33, 159-164.	2.4	11
42	Analysis of toxic Veratrum alkaloids in plant samples from an accidental poisoning case. Forensic Toxicology, 2018, 36, 200-210.	2.4	11
43	Analysis of nitrogen mustard degradation products via post-pentafluorobenzoylation liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2020, 1625, 461306.	3.7	10
44	Analysis of Benzylpiperazine-like Compounds. Japanese Journal of Science and Technology for Identification, 2004, 9, 165-184.	0.2	9
45	Homicide involving Aconitum tuberosus root: LC-MS-MS analysis of Aconitum alkaloids and their hydrolysates in formalin-fixed tissues. Forensic Toxicology, 2010, 28, 47-51.	2.4	9
46	Enantioselective determination of (R)-zopiclone and (S)-zopiclone (eszopiclone) in human hair by micropulverized extraction and chiral liquid chromatography/high resolution mass spectrometry. Journal of Chromatography A, 2017, 1519, 55-63.	3.7	9
47	Measurement of three-dimensional distributions of drugs in nails using liquid chromatography/tandem mass spectrometry after micro-segmentation to elucidate drug uptake routes. Analytica Chimica Acta, 2020, 1108, 89-97.	5.4	9
48	Synthesis and Identification of Urinary Metabolites of 4-Iodo-2,5-dimethoxyphenethylamine. Journal of Forensic Sciences, 2011, 56, 1319-1323.	1.6	8
49	Distribution measurement of amphetamine-type stimulants in organs using micropulverized extraction and liquid chromatography/tandem mass spectrometry to complement drug distribution using mass spectrometry imaging. Rapid Communications in Mass Spectrometry, 2011, 25, 2397-2406.	1.5	8
50	Development of an improved method to estimate the days of continuous drug ingestion, based on the micro-segmental hair analysis. Drug Testing and Analysis, 2021, 13, 1295-1304.	2.6	8
51	Dimethoxytriadinylation LC-MS/MS of Novichok A-Series Degradation Products in Human Urine. Analytical Chemistry, 2022, 94, 4658-4665.	6.5	8
52	Determination of 4-Hydroxy-3-methoxymethamphetamine as a Metabolite of Methamphetamine in Rats and Human Liver Microsomes Using Gas Chromatography-Mass Spectrometry and Liquid Chromatography-Tandem Mass Spectrometry. Journal of Analytical Toxicology, 2009, 33, 266-271.	2.8	7
53	Utilization of matrix-assisted laser desorption/ionization imaging mass spectrometry to search for cannabis in herb mixtures. Analytical and Bioanalytical Chemistry, 2014, 406, 4789-4794.	3.7	7
54	A Screening Method for Cyanide in Blood by Dimethoxytriazinyl Derivatization-GC/MS. Journal of Chromatographic Science, 2021, 59, 1-6.	1.4	7

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55	Development of the selective concentration analytical method for drug-containing hair regions based on micro-segmental analysis to identify a trace amount of drug in hair: hair analysis following single-dose ingestion of midazolam. <i>Forensic Toxicology</i> , 2021, 39, 156-166.	2.4	7
56	Determination of sedative/hypnotics in human hair by micropulverized extraction and liquid chromatography/quadrupole-Orbitrap mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 5777-5783.	2.7	6
57	Distribution profiles of diphenhydramine and lidocaine in scalp, axillary, and pubic hairs measured by micro-segmental hair analysis: good indicator for discrimination between administration and external contamination of the drugs. <i>Forensic Toxicology</i> , 2022, 40, 64-74.	2.4	6
58	Japanese Journal of Forensic Science		
59	Increase in split ratio enables detection of underivatized N-hydroxy-3,4-methylenedioxymethamphetamine and N-hydroxy-3,4-methylenedioxyamphetamine by capillary GC-MS. <i>Forensic Toxicology</i> , 2010, 28, 55-57.	2.4	3
60	A model system for prediction of the in vivo metabolism of designer drugs using three-dimensional culture of rat and human hepatocytes. <i>Forensic Toxicology</i> , 2011, 29, 142-151.	2.4	3
61	Genotyping of Toxic Pufferfish Based on Specific PCR-RFLP Products As Determined by Liquid Chromatography/Quadrupole-Orbitrap Hybrid Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 9363-9371.	5.2	3
62	Next-generation sequencing analysis of off-ladder alleles due to migration shift caused by sequence variation at D12S391 locus. <i>Legal Medicine</i> , 2016, 22, 62-67.	1.3	3
63	Improved Polymerase Chain Reaction-restriction Fragment Length Polymorphism Genotyping of Toxic Pufferfish by Liquid Chromatography/Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2016, .	0.3	2
64	Development of a handy microdiffusion device using two plastic test tubes for accurately quantifying cyanide in blood. <i>Forensic Toxicology</i> , 2020, 38, 542-546.	2.4	2
65	Qualitative analysis of zolpidem and its metabolites M-1 to M-4 in human blood and urine using liquid chromatography tandem mass spectrometry. <i>Forensic Toxicology</i> , 2021, 39, 134-145.	2.4	2
66	Synthesis Of N-Labeled Peptidyl AMP. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1993-2003.	1.1	1
67	Evaluation of the possibility of binary synthesis of VX by theoretical calculation. <i>Chemical Physics Letters</i> , 2020, 756, 137808.	2.6	1
68	Toxicological analysis of satratoxins, the main toxins in the mushroom <i>Trichoderma cornu-damae</i> , in human serum and mushroom samples by liquid chromatography tandem mass spectrometry. <i>Forensic Toxicology</i> , 2021, 39, 101-113.	2.4	1
69	Experimental study for adsorption and photocatalytic reaction of ethyl methylphosphonate molecule as organophosphorus compound adsorbed at surface of titanium dioxide under UV irradiation in ambient condition. <i>Research on Chemical Intermediates</i> , 2021, 47, 1563-1579.	2.7	1
70	Assembly of Glycochips with Mammalian GSLs Mimetics toward the On-site Detection of Biological Toxins. <i>ACS Omega</i> , 2021, 6, 32597-32606.	3.5	1
71	Analysis of degradation products of nerve agents in biological fluids by ion chromatography tandem mass spectrometry. <i>Forensic Toxicology</i> , 2023, 41, 71-80.	2.4	1
72	Urinary excretion profiles of N-hydroxy-3,4-methylenedioxymethamphetamine in rats. <i>Xenobiotica</i> , 2011, 41, 578-584.	1.1	0

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73	Development of an automated and sensitive GC/MS system for the analysis of amphetamine-type stimulants in hair.. Japanese Journal of Forensic Science and Technology, 2012, 17, 27-34.	0.1	0