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Headspace needle-trap analysis of priority volatile organic compounds from aqueous samples: application to the analysis of natural and waste waters

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Journal of Chromatography A, 2011, 1218, 8131-9.

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#	Paper	IF	Citations
60	Novel sample preparation technique with needle-type micro-extraction device for volatile organic compounds in indoor air samples. <i>Analytica Chimica Acta</i> , 2012 , 746, 77-83	6.6	35
59	A headspace needle-trap method for the analysis of volatile organic compounds in whole blood. <i>Journal of Chromatography A</i> , 2012 , 1252, 23-30	4.5	30
58	Effectiveness of in-needle extraction device for liquid samples. <i>Analytica Chimica Acta</i> , 2012 , 751, 182-8	6.6	10
57	Solubility parameter used to predict the effectiveness of monolithic in-needle extraction (MINE) device for the direct analysis of liquid samples. <i>Analytica Chimica Acta</i> , 2013 , 805, 54-9	6.6	9
56	Preparation and examination of monolithic in-needle extraction (MINE) device for the direct analysis of liquid samples. <i>Analytica Chimica Acta</i> , 2013 , 776, 50-6	6.6	17
55	Quantitative criteria for needle trap device selection. <i>Journal of Chromatography A</i> , 2013 , 1278, 181-3	4.5	3
54	Needle-type extraction device for the purge and trap analysis of 23 volatile organic compounds in tap water. <i>Journal of Chromatography A</i> , 2013 , 1317, 211-6	4.5	36
53	Analytical challenges in breath analysis and its application to exposure monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 44, 78-89	14.6	35
52	Needle-trap device for the sampling and determination of chlorinated volatile compounds. <i>Journal of Separation Science</i> , 2013 , 36, 3372-8	3.4	11
51	3 Novel Materials in Solid-Phase Microextraction and Related Sample Preparation Approaches. 2014 , 88-190		
50	Analysis of xylene in aqueous media using needle-trap microextraction with a carbon nanotube sorbent. <i>Journal of Separation Science</i> , 2014 , 37, 1850-5	3.4	17
49	Characterization of plasma-enhanced teflon AF for sensing benzene, toluene, and xylenes in water with near-IR surface plasmon resonance. <i>Talanta</i> , 2014 , 119, 151-5	6.2	5
48	Double-bed-type extraction needle packed with activated-carbon-based sorbents for very volatile organic compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 88, 423-8	3.5	22
47	A novel method for the measurement of VOCs in seawater using needle trap devices and GCMS. <i>Marine Chemistry</i> , 2014 , 159, 1-8	3.7	21
46	Green Chromatographic Techniques. 2014 ,		4
45	Determination of Toluene by Needle Trap Micro-Extraction with Carbon Nanotube Sol-Gel and Polydimethylsiloxane Sorbents. <i>Analytical Letters</i> , 2014 , 47, 2165-2172	2.2	6
44	Development of syringe pump assisted headspace sampler. <i>Journal of Chromatography A</i> , 2014 , 1361, 88-94	4.5	4

43	An in-needle extraction technique in determination of organic compounds released from dental tissue conditioners incubated in artificial saliva. <i>Talanta</i> , 2014 , 129, 203-8	6.2	9
42	Needle-type extraction device designed for rapid and sensitive analysis in gas chromatography. <i>Analytical Sciences</i> , 2014 , 30, 105-10	1.7	34
41	Optical sensors for the detection of trace chloroform. <i>Analytical Chemistry</i> , 2015 , 87, 1569-74	7.8	21
40	Determination of volatile organic compounds in water using headspace knotted hollow fiber microextraction. <i>Journal of Chromatography A</i> , 2015 , 1395, 41-7	4.5	25
39	Determination of very volatile organic compounds in water samples by purge and trap analysis with a needle-type extraction device. <i>Journal of Chromatography A</i> , 2015 , 1397, 27-31	4.5	31
38	Strengthen the collaboration between the River Basin Management Organization of China and International Environmental Specimen Bank Group. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 1628-30	5.1	1
37	Systematic comparison of static and dynamic headspace sampling techniques for gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 6567-79	4.4	24
36	Graphene/polyaniline electrodeposited needle trap device for the determination of volatile organic compounds in human exhaled breath vapor and A549 cell. <i>RSC Advances</i> , 2017 , 7, 11959-11968	3.7	15
35	A core-shell titanium dioxide polyaniline nanocomposite for the needle-trap extraction of volatile organic compounds in urine samples. <i>Journal of Separation Science</i> , 2017 , 40, 1985-1992	3.4	9
34	A superhydrophobic silica aerogel with high surface area for needle trap microextraction of chlorobenzenes. <i>Mikrochimica Acta</i> , 2017 , 184, 2151-2156	5.8	29
33	Extraction media used in needle trap devices-Progress in development and application. <i>Journal of Chromatography A</i> , 2017 , 1505, 1-17	4.5	44
32	Determination of volatile organic compounds in exhaled breath of heart failure patients by needle trap micro-extraction coupled with gas chromatography-tandem mass spectrometry. <i>Journal of Breath Research</i> , 2017 , 11, 047110	3.1	34
31	Determination of volatile organic compounds in pen inks by a dynamic headspace needle trap device combined with gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2017 , 1513, 27-34	4.5	23
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28	Validation of a New Method for the Monitoring of Environmental Benzene at Low Concentration Using the Needle Trap Device. <i>Journal of Pollution Effects & Control</i> , 2018 , 06,		
27	Discrimination of volatiles in herbal formula Baizhu Shaoyao San before and after processing using needle trap device with multivariate data analysis. <i>Royal Society Open Science</i> , 2018 , 5, 171987	3.3	2
26	Evaluation of prepared natural polymers in the extraction of chlorobenzenes from environmental samples: Sol-gel based cellulose acetate-phenyltriethoxysilane fibers. <i>Microchemical Journal</i> , 2018 , 142, 265-272	4.8	1

25	Three-dimensional nanofiber scaffolds are superior to two-dimensional mats in micro-oriented extraction of chlorobenzenes. <i>Mikrochimica Acta</i> , 2018 , 185, 322	5.8	10
24	Needle-based extraction techniques with protected sorbent as powerful sample preparation tools to gas chromatographic analysis: Trends in application. <i>Journal of Chromatography A</i> , 2018 , 1565, 1-18	4.5	30
23	The role of microextraction techniques in occupational exposure assessment. A review. <i>Microchemical Journal</i> , 2019 , 150, 104086	4.8	19
22	High-sensitivity detection and quantification of CHCl ₃ vapors in various gas environments based on the photoacoustic spectroscopy. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 2234-2241	1.2	5
21	Analysis of volatile organic compounds in environmental matrices by nitrogen-assisted headspace solid-phase extraction. <i>New Journal of Chemistry</i> , 2019 , 43, 8788-8795	3.6	1
20	An in-needle solid-phase microextraction device packed with etched steel wires for polycyclic aromatic hydrocarbons enrichment in water samples. <i>Journal of Separation Science</i> , 2019 , 42, 1750-1756	3.4	3
19	Effective preconcentration of volatile organic compounds from aqueous solutions with polydimethylsiloxane-coated filter paper. <i>Microchemical Journal</i> , 2019 , 145, 979-987	4.8	3
18	The geometrical characteristics of nickel-based metal organic framework on its entrapment capability. <i>Journal of Chromatography A</i> , 2020 , 1610, 460551	4.5	4
17	Environmental applications (water). 2020 , 609-645		
16	Needle extraction device. 2020 , 429-442		1
15	On-Line Sorbentless Cryogenic Needle Trap and GC-FID Method for the Extraction and Analysis of Trace Volatile Organic Compounds from Soil Samples. <i>Journal of Chromatographic Science</i> , 2020 , 58, 887-895	1.4	1
14	Static Headspace Analysis and Its Current Status. <i>Journal of Analytical Chemistry</i> , 2020 , 75, 1-17	1.1	4
13	Deep eutectic solvent dependent carbon dioxide switching as a homogeneous extracting solvent in liquid-liquid microextraction. <i>Journal of Chromatography A</i> , 2021 , 1636, 461756	4.5	6
12	Pyrrolo-[3,2-b]pyrroles for Photochromic Analysis of Halocarbons. <i>Analytical Chemistry</i> , 2016 , 88, 1195-2018	3.8	17
11	Method validation and measurement uncertainty of possible thirty volatile organic compounds (VOCs) presented in the polyethylene present in bottled drinking waters sold in Turkey. <i>Journal of Analytical Science and Technology</i> , 2020 , 11,	3.4	2
10	Sample Preparation of Volatile Organic Compounds with Needle-Type Extraction Device. <i>Chromatography</i> , 2013 , 34, 23-31	1.2	6
9	Green Sample Preparation Focusing on Organic Analytes in Complex Matrices. 2014 , 141-166		2
8	Sample Preparation of Volatile Organic Compounds in Air Samples with a Novel Polyimide-Packed Cartridge Designed for the Subsequent Analysis in Capillary Gas Chromatography. <i>Chromatography</i> , 2015 , 36, 33-37	1.2	6

7	Effects of Processing Method Changes in Main Volatile Compounds of Qixue Shuangbu Prescription by Needle Trap Device Coupled with Gas Chromatography-Triple Quadrupole Mass Spectrometry.. <i>Journal of Chromatographic Science</i> , 2021 ,	1.4	
6	Gas Chromatography Method Validation Study for Sensitive and Accurate Determination of Volatile Aromatic Hydrocarbons (VAHs) in Water. <i>Cumhuriyet Science Journal</i> ,	0.4	0
5	The Evolution of Needle-Trap Devices with Focus on Aerosol Investigations. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 153, 116643	14.6	2
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3	Application of a needle trap device packed with a MIP@MOF nano-composite for efficient sampling and determination of airborne diazinon pesticide. <i>RSC Advances</i> , 2022 , 12, 16267-16276	3.7	1
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