

Kari M Hartonen

List of Publications by Year in descending order

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63
papers

2,116
citations

201575

27
h-index

243529

44
g-index

63
all docs

63
docs citations

63
times ranked

2324
citing authors

#	ARTICLE	IF	CITATIONS
1	New evidence of an organic layer on marine aerosols. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 1-1.	3.3	153
2	Analytical extractions with water at elevated temperatures and pressures. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 396-412.	5.8	148
3	Pressurized hot water extraction of Norway spruce hemicelluloses using a flow-through system. <i>Wood Science and Technology</i> , 2011, 45, 223-236.	1.4	92
4	Solid phase microextraction Arrow for the sampling of volatile amines in wastewater and atmosphere. <i>Journal of Chromatography A</i> , 2015, 1426, 56-63.	1.8	91
5	Isolation of flavonoids from aspen knotwood by pressurized hot water extraction and comparison with other extraction techniques. <i>Talanta</i> , 2007, 74, 32-38.	2.9	81
6	Extraction of iridoid glycosides and their determination by micellar electrokinetic capillary chromatography. <i>Journal of Chromatography A</i> , 2000, 868, 73-83.	1.8	78
7	Modified zeolitic imidazolate framework-8 as solid-phase microextraction Arrow coating for sampling of amines in wastewater and food samples followed by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1486, 76-85.	1.8	78
8	Supercritical carbon dioxide extraction of lycopene in tomato skins. <i>European Food Research and Technology</i> , 2001, 212, 561-565.	1.6	76
9	Liquid chromatography at elevated temperatures with pure water as the mobile phase. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 1-14.	5.8	66
10	Supercritical fluid extraction with solid-phase trapping of chlorinated and brominated pollutants from sediment samples. <i>Journal of Chromatography A</i> , 1997, 774, 229-242.	1.8	65
11	Pressurized hot water extraction coupled with supercritical water oxidation in remediation of sand and soil containing PAHs. <i>Journal of Supercritical Fluids</i> , 2002, 23, 123-134.	1.6	65
12	Preparation of Î²-caryophyllene oxidation products and their determination in ambient aerosol samples. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 913-919.	1.9	51
13	Pressurised hot water/steam extraction of polychlorinated dibenzofurans and naphthalenes from industrial soil. <i>Analyst, The</i> , 1999, 124, 1351-1354.	1.7	48
14	Analysis of polycyclic aromatic hydrocarbons in soil and sediment with on-line coupled pressurised hot water extraction, hollow fibre microporous membrane liquid-liquid extraction and gas chromatography. <i>Analyst, The</i> , 2003, 128, 434-439.	1.7	47
15	Aerial drone as a carrier for miniaturized air sampling systems. <i>Journal of Chromatography A</i> , 2019, 1597, 202-208.	1.8	44
16	Integrated atomic layer deposition and chemical vapor reaction for the preparation of metal organic framework coatings for solid-phase microextraction Arrow. <i>Analytica Chimica Acta</i> , 2018, 1024, 93-100.	2.6	43
17	Comparison of gas chromatography-mass spectrometry and capillary electrophoresis in analysis of phenolic compounds extracted from solid matrices with pressurized hot water. <i>Journal of Chromatography A</i> , 2004, 1022, 9-16.	1.8	39
18	Pressurized hot water extraction (PHWE) of n-alkanes and polyaromatic hydrocarbons (PAHs): Comparison for PAHs with supercritical fluid extraction. <i>Journal of Separation Science</i> , 2000, 12, 412-418.	1.0	37

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19	Stability of polycyclic aromatic hydrocarbons in pressurised hot water. <i>Analyst, The</i> , 2003, 128, 150-155.	1.7	37
20	Miniaturised air sampling techniques for analysis of volatile organic compounds in air. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 126, 115873.	5.8	37
21	Optimisation of supercritical fluid extraction of indole alkaloids from <i>Catharanthus roseus</i> using experimental design methodology – comparison with other extraction techniques. <i>Phytochemical Analysis</i> , 2008, 19, 52-63.	1.2	33
22	Nordic laboratory intercomparison of supercritical fluid extraction for the determination of total petroleum hydrocarbon, polychlorinated biphenyls and polycyclic aromatic hydrocarbons in soil. <i>Journal of Chromatography A</i> , 2002, 958, 239-248.	1.8	32
23	Destruction of PAHs from soil by using pressurized hot water extraction coupled with supercritical water oxidation. <i>Waste Management</i> , 2003, 23, 253-260.	3.7	32
24	Nitrogen-Containing Low Volatile Compounds from Pinonaldehyde-Dimethylamine Reaction in the Atmosphere: A Laboratory and Field Study. <i>Environmental Science & Technology</i> , 2016, 50, 4693-4700.	4.6	32
25	Pressurised hot water extraction and thermal desorption of polycyclic aromatic hydrocarbons from sediment with use of a novel extraction vessel. <i>Analytica Chimica Acta</i> , 2002, 466, 93-100.	2.6	31
26	Aliphatic and aromatic amines in atmospheric aerosol particles: Comparison of three ionization techniques in liquid chromatography-mass spectrometry and method development. <i>Talanta</i> , 2012, 97, 55-62.	2.9	31
27	Field measurements of biogenic volatile organic compounds in the atmosphere using solid-phase microextraction. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 881-893.	1.2	31
28	Determination of atmospheric amines by on-fiber derivatization solid-phase microextraction with 2,3,4,5,6-pentafluorobenzyl chloroformate and 9-fluorenylmethoxycarbonyl chloride. <i>Journal of Chromatography A</i> , 2015, 1376, 46-52.	1.8	28
29	Solid-phase extraction of organic compounds in atmospheric aerosol particles collected with the particle-into-liquid sampler and analysis by liquid chromatography-mass spectrometry. <i>Talanta</i> , 2010, 80, 1170-1176.	2.9	26
30	Field measurements of biogenic volatile organic compounds in the atmosphere by dynamic solid-phase microextraction and portable gas chromatography-mass spectrometry. <i>Atmospheric Environment</i> , 2015, 115, 214-222.	1.9	26
31	Chemical Characterization of Gas- and Particle-Phase Products from the Ozonolysis of α -Pinene in the Presence of Dimethylamine. <i>Environmental Science & Technology</i> , 2017, 51, 5602-5610.	4.6	25
32	Particle Size Distribution and Gas-Particle Partition of Polycyclic Aromatic Hydrocarbons in Helsinki Urban Area. <i>Journal of Atmospheric Chemistry</i> , 2004, 47, 223-241.	1.4	23
33	Analysis of chemical warfare agents in soil samples by off-line supercritical fluid extraction and capillary gas chromatography. <i>Journal of Separation Science</i> , 1991, 3, 505-512.	1.0	21
34	Determination of organic compounds from wood combustion aerosol nanoparticles by different gas chromatographic systems and by aerosol mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 151-159.	1.8	21
35	A complete methodology for the reliable collection, sample preparation, separation and determination of organic compounds in ultrafine 30 nm, 40 nm and 50 nm atmospheric aerosol particles. <i>Analytical Methods</i> , 2011, 3, 2501.	1.3	21
36	On-line coupled supercritical fluid extraction-liquid chromatography-gas chromatography-mass spectrometry for the analysis of organic acids. <i>Journal of Separation Science</i> , 2001, 13, 202-210.	1.0	20

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37	Characterization of organic compounds in 10- to 50-nm aerosol particles in boreal forest with laser desorption-ionization aerosol mass spectrometer and comparison with other techniques. <i>Atmospheric Environment</i> , 2011, 45, 3711-3719.	1.9	20
38	Current instrumentation for aerosol mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1486-1496.	5.8	19
39	Fully Automated Online Dynamic In-Tube Extraction for Continuous Sampling of Volatile Organic Compounds in Air. <i>Analytical Chemistry</i> , 2019, 91, 8507-8515.	3.2	18
40	Volatile oil analysis of <i>Thymus vulgaris</i> L. by directly coupled SFE/GC. <i>Journal of Separation Science</i> , 1992, 4, 3-7.	1.0	16
41	Environmentally friendly laboratory-scale remediation of PAH-contaminated soil by using pressurized hot water extraction coupled with pressurized hot water oxidation. <i>Green Chemistry</i> , 2002, 4, 213-219.	4.6	16
42	Selective extraction of aliphatic amines by functionalized mesoporous silica-coated solid phase microextraction. <i>Mikrochimica Acta</i> , 2019, 186, 412.	2.5	16
43	Comprehensive two-dimensional gas chromatography, a valuable technique for screening and semiquantitation of different chemical compounds in ultrafine 30 nm and 50 nm aerosol particles. <i>Journal of Environmental Monitoring</i> , 2011, 13, 2994.	2.1	15
44	Potential of needle trap microextraction-“portable gas chromatography”-mass spectrometry for measurement of atmospheric volatile compounds. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3661-3671.	1.2	15
45	Carbon clusters in 50nm urban air aerosol particles quantified by laser desorption-ionization aerosol mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2014, 358, 17-24.	0.7	14
46	Analysis of indoor air emissions: From building materials to biogenic and anthropogenic activities. <i>Journal of Chromatography Open</i> , 2022, 2, 100041.	0.8	14
47	Pressurised hot water extraction of n-alkanes and polyaromatic hydrocarbons in soil and sediment from the oil shale industry district in Estonia. <i>Journal of Soils and Sediments</i> , 2004, 4, 107-114.	1.5	13
48	Quantitative analysis and spatial and temporal distribution of volatile organic compounds in atmospheric air by utilizing drone with miniaturized samplers. <i>Chemosphere</i> , 2021, 282, 131024.	4.2	12
49	Effect of extraction vessel geometry and flow homogeneity on recoveries of polycyclic aromatic hydrocarbons in pressurised hot water extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 1081-1088.	1.9	11
50	Continuous H/D exchange of aromatic hydrocarbons using near-critical deuterium oxide. <i>Journal of Supercritical Fluids</i> , 2007, 39, 381-388.	1.6	10
51	Influence of the sampling site, the season of the year, the particle size and the number of nucleation events on the chemical composition of atmospheric ultrafine and total suspended particles. <i>Atmospheric Environment</i> , 2012, 49, 60-68.	1.9	10
52	Supercritical fluid extraction combined with solid phase extraction as sample preparation technique for the analysis of β -blockers in serum and urine. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 618-621.	1.5	9
53	Gas chromatographic vapor pressure determination of atmospherically relevant oxidation products of β -caryophyllene and β -pinene. <i>Atmospheric Environment</i> , 2013, 81, 330-338.	1.9	9
54	Problems Caused by Moisture in Gas Chromatographic Analysis of Headspace SPME Samples of Short-Chain Amines. <i>Chromatographia</i> , 2019, 82, 307-316.	0.7	9

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55	Comparison of multiple calibration approaches for the determination of volatile organic compounds in air samples by solid phase microextraction Arrow and in-tube extraction. <i>Journal of Chromatography A</i> , 2020, 1616, 460825.	1.8	9
56	Aerial drone furnished with miniaturized versatile air sampling systems for selective collection of nitrogen containing compounds in boreal forest. <i>Science of the Total Environment</i> , 2022, 808, 152011.	3.9	9
57	Desorption atmospheric pressure photoionization high-resolution mass spectrometry: a complementary approach for the chemical analysis of atmospheric aerosols. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1233-1241.	0.7	8
58	Broadband Laser-Based Infrared Detector for Gas Chromatography. <i>Analytical Chemistry</i> , 2020, 92, 14582-14588.	3.2	7
59	Layered double hydroxide/poly(vinylpyrrolidone) coated solid phase microextraction Arrow for the determination of volatile organic compounds in water. <i>Journal of Separation Science</i> , 2020, 43, 3285-3293.	1.3	7
60	Identifying volatile in vitro biomarkers for oral bacteria with proton-transfer-reaction mass spectrometry and gas chromatography-mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 16897.	1.6	7
61	Liquid chromatography-dopant-assisted atmospheric pressure photoionization-mass spectrometry: Application to the analysis of aldehydes in atmospheric aerosol particles. <i>Journal of Separation Science</i> , 2013, 36, 164-172.	1.3	5
62	Changes in concentration of nitrogen-containing compounds in 10nm particles of boreal forest atmosphere at snowmelt. <i>Journal of Aerosol Science</i> , 2014, 70, 1-10.	1.8	5
63	A new approach to determine vapor pressures of compounds in multicomponent systems by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry. <i>Talanta</i> , 2014, 124, 21-26.	2.9	4