

Jan H Christensen

List of Publications by Year in descending order

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122
papers

3,659
citations

145106

33
h-index

175968

55
g-index

123
all docs

123
docs citations

123
times ranked

4744
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyfluorinated surfactants (PFS) in paper and board coatings for food packaging. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1108-1120.	2.7	241
2	Phytoremediation of an aged petroleum contaminated soil using endophyte infected and non-infected grasses. <i>Chemosphere</i> , 2010, 81, 1084-1090.	4.2	174
3	Polybrominated diphenyl ethers (PBDEs) in marine fish and blue mussels from southern Greenland. <i>Chemosphere</i> , 2002, 47, 631-638.	4.2	150
4	Characterization and Matching of Oil Samples Using Fluorescence Spectroscopy and Parallel Factor Analysis. <i>Analytical Chemistry</i> , 2005, 77, 2210-2217.	3.2	131
5	Can ornamental potted plants remove volatile organic compounds from indoor air? â€” a review. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13909-13928.	2.7	128
6	Practical aspects of chemometrics for oil spill fingerprinting. <i>Journal of Chromatography A</i> , 2007, 1169, 1-22.	1.8	127
7	Characterization, Weathering, and Application of Sesquiterpanes to Source Identification of Spilled Lighter Petroleum Products. <i>Environmental Science & Technology</i> , 2005, 39, 8700-8707.	4.6	97
8	Integrated Methodology for Forensic Oil Spill Identification. <i>Environmental Science & Technology</i> , 2004, 38, 2912-2918.	4.6	96
9	Persistent halogenated compounds in black guillemots (<i>Cepphus grylle</i>) from Greenlandâ€™s levels, compound patterns and spatial trends. <i>Marine Pollution Bulletin</i> , 2004, 48, 111-121.	2.3	94
10	Chemical Fingerprinting of Petroleum Biomarkers Using Time Warping and PCA. <i>Environmental Science & Technology</i> , 2005, 39, 255-260.	4.6	90
11	Screening of polybrominated diphenyl ethers in blue mussels, marine and freshwater sediments in Denmark. <i>Journal of Environmental Monitoring</i> , 2001, 3, 543-547.	2.1	87
12	Blending of heritable recognition cues among ant nestmates creates distinct colony gestalt odours but prevents within-colony nepotism. <i>Journal of Evolutionary Biology</i> , 2010, 23, 1498-1508.	0.8	87
13	Fluorochemicals used in food packaging inhibit male sex hormone synthesis. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 132-142.	1.3	75
14	First intercomparison study on the analysis of oxygenated polycyclic aromatic hydrocarbons (oxy-PAHs) and nitrogen heterocyclic polycyclic aromatic compounds (N-PACs) in contaminated soil. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 57, 83-92.	5.8	73
15	Temporal characterization and statistical analysis of flowback and produced waters and their potential for reuse. <i>Science of the Total Environment</i> , 2018, 619-620, 654-664.	3.9	69
16	Polybrominated diphenyl ethers and organochlorine compounds in biota from the marine environment of East Greenland. <i>Science of the Total Environment</i> , 2004, 331, 143-155.	3.9	62
17	Extraction of polycyclic aromatic hydrocarbons from smoked fish using pressurized liquid extraction with integrated fat removal. <i>Talanta</i> , 2009, 79, 10-15.	2.9	56
18	Influence of smoking parameters on the concentration of polycyclic aromatic hydrocarbons (PAHs) in Danish smoked fish. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2010, 27, 1294-1305.	1.1	53

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19	Chromatographic preprocessing of GC-MS data for analysis of complex chemical mixtures. <i>Journal of Chromatography A</i> , 2005, 1062, 113-123.	1.8	52
20	Multivariate statistical methods for evaluating biodegradation of mineral oil. <i>Journal of Chromatography A</i> , 2005, 1090, 133-145.	1.8	51
21	Pressurised liquid extraction of flavonoids in onions. Method development and validation. <i>Talanta</i> , 2009, 80, 269-278.	2.9	50
22	Quantification and source identification of polycyclic aromatic hydrocarbons in sediment, soil, and water spinach from Hanoi, Vietnam. <i>Journal of Environmental Monitoring</i> , 2008, 10, 261-269.	2.1	46
23	Source identification of petroleum hydrocarbons in soil and sediments from Iguaçu River Watershed, Paraná, Brazil using the CHEMSIC method (CHEMometric analysis of Selected Ion Chromatograms). <i>Journal of Chromatography A</i> , 2012, 1235, 149-158.	1.8	46
24	Chemometric assessment of enhanced bioremediation of oil contaminated soils. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 372-381.	6.5	46
25	A novel approach for characterization of polycyclic aromatic hydrocarbon (PAH) pollution patterns in sediments from Guanabara Bay, Rio de Janeiro, Brazil. <i>Environmental Pollution</i> , 2010, 158, 3290-3297.	3.7	44
26	Fate and antibacterial potency of anticoccidial drugs and their main abiotic degradation products. <i>Environmental Pollution</i> , 2009, 157, 474-480.	3.7	42
27	Structural isomers of polyfluorinated di- and tri-alkylated phosphate ester surfactants present in industrial blends and in microwave popcorn bags. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1422-1432.	2.7	42
28	Fungal PAH-Metabolites Resist Mineralization by Soil Microorganisms. <i>Environmental Science & Technology</i> , 2010, 44, 1677-1682.	4.6	41
29	In situ biodegradation, photooxidation and dissolution of petroleum compounds in Arctic seawater and sea ice. <i>Water Research</i> , 2019, 148, 459-468.	5.3	39
30	Assessment of oil weathering by gas chromatography-mass spectrometry, time warping and principal component analysis. <i>Journal of Chromatography A</i> , 2007, 1164, 262-270.	1.8	38
31	Assessment of volatile organic compound removal by indoor plants—a novel experimental setup. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7838-7846.	2.7	38
32	Combining electrokinetic transport and bioremediation for enhanced removal of crude oil from contaminated marine sediments: Results of a long-term, mesocosm-scale experiment. <i>Water Research</i> , 2019, 157, 381-395.	5.3	38
33	Forensic Investigations of Diesel Oil Spills in the Environment Using Comprehensive Two-Dimensional Gas Chromatography-High Resolution Mass Spectrometry and Chemometrics: New Perspectives in the Absence of Recalcitrant Biomarkers. <i>Environmental Science & Technology</i> , 2019, 53, 550-559.	4.6	35
34	Modeling of advective solute transport in sandy sediments inhabited by the lugworm <i>Arenicola marina</i> . <i>Journal of Marine Research</i> , 2002, 60, 151-169.	0.3	34
35	Marine biodegradation of crude oil in temperate and Arctic water samples. <i>Journal of Hazardous Materials</i> , 2015, 300, 75-83.	6.5	34
36	Non-target screening for the identification of migrating compounds from reusable plastic bottles into drinking water. <i>Journal of Hazardous Materials</i> , 2022, 429, 128331.	6.5	34

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37	Sediment baseline study of levels and sources of polycyclic aromatic hydrocarbons and heavy metals in Lake Nicaragua. <i>Chemosphere</i> , 2014, 95, 556-565.	4.2	33
38	Tools to discover anionic and nonionic polyfluorinated alkyl surfactants by liquid chromatography electrospray ionisation mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 7094-7104.	1.8	30
39	Correction of Matrix Effects for Reliable Non-target Screening LC-ESI-MS Analysis of Wastewater. <i>Analytical Chemistry</i> , 2021, 93, 8432-8441.	3.2	30
40	The surface reactivity of chalk (biogenic calcite) with hydrophilic and hydrophobic functional groups. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 212-224.	1.6	29
41	PAH related effects on fish in sedimentation ponds for road runoff and potential transfer of PAHs from sediment to biota. <i>Science of the Total Environment</i> , 2016, 566-567, 1309-1317.	3.9	28
42	Polychlorinated biphenyls, organochlorine pesticides and polycyclic aromatic hydrocarbons in a one-off global survey of bivalves. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1141.	2.1	25
43	Pixel-Based Analysis of Comprehensive Two-Dimensional Gas Chromatograms (Color Plots) of Petroleum: A Tutorial. <i>Analytical Chemistry</i> , 2014, 86, 7160-7170.	3.2	25
44	Polycyclic Aromatic Acids Are Primary Metabolites of Alkyl-PAHs—A Case Study with <i>Nereis diversicolor</i> . <i>Environmental Science & Technology</i> , 2015, 49, 5713-5721.	4.6	25
45	Evaluation of dimethyl sulfoxide (DMSO) as a co-solvent for toxicity testing of hydrophobic organic compounds. <i>Ecotoxicology</i> , 2019, 28, 1136-1141.	1.1	25
46	Investigating weathering in light diesel oils using comprehensive two-dimensional gas chromatography—High resolution mass spectrometry and pixel-based analysis: Possibilities and limitations. <i>Journal of Chromatography A</i> , 2019, 1591, 155-161.	1.8	25
47	Effects of <i>Nereis diversicolor</i> on the Transformation of 1-Methylpyrene and Pyrene: Transformation Efficiency and Identification of Phase I and II Products. <i>Environmental Science & Technology</i> , 2013, 47, 5383-5392.	4.6	24
48	Analysis of glyphosate and aminomethylphosphonic acid in leaves from <i>Coffea arabica</i> using high performance liquid chromatography with quadrupole mass spectrometry detection. <i>Talanta</i> , 2016, 146, 609-620.	2.9	24
49	Source identification of beached oil at Al Zubarah, Northwestern Qatar. <i>Journal of Petroleum Science and Engineering</i> , 2017, 149, 107-113.	2.1	24
50	Ethephon-induced changes in antioxidants and phenolic compounds in anthocyanin-producing black carrot hairy root cultures. <i>Journal of Experimental Botany</i> , 2020, 71, 7030-7045.	2.4	23
51	Biodegradation, Photo-oxidation, and Dissolution of Petroleum Compounds in an Arctic Fjord during Summer. <i>Environmental Science & Technology</i> , 2019, 53, 12197-12206.	4.6	22
52	Isomer-Specific Biodegradation of Methylphenanthrenes by Soil Bacteria. <i>Environmental Science & Technology</i> , 2008, 42, 4790-4796.	4.6	21
53	Increasing Flexibility in Two-Dimensional Liquid Chromatography by Pulsed Elution of the First Dimension: A Proof of Concept. <i>Analytical Chemistry</i> , 2017, 89, 8723-8730.	3.2	21
54	Biodegradation of crude oil in Arctic subsurface water from the Disko Bay (Greenland) is limited. <i>Environmental Pollution</i> , 2017, 223, 73-80.	3.7	20

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55	PARAFAC Modeling of Fluorescence Excitation~Emission Spectra of Fish Bile for Rapid En Route Screening of PAC Exposure. <i>Environmental Science & Technology</i> , 2009, 43, 4439-4445.	4.6	18
56	Polar metabolites of polycyclic aromatic compounds from fungi are potential soil and groundwater contaminants. <i>Chemosphere</i> , 2015, 119, 250-257.	4.2	18
57	Limited recovery of soil microbial activity after transient exposure to gasoline vapors. <i>Environmental Pollution</i> , 2016, 216, 826-835.	3.7	18
58	Source apportionment of polycyclic aromatic hydrocarbons (PAHs) in sediments from Khuzestan province, Iran. <i>Marine Pollution Bulletin</i> , 2016, 110, 584-590.	2.3	18
59	Disentangling the abiotic and biotic components of AMF suppressive soils. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108305.	4.2	17
60	Using the hydrophobic subtraction model to choose orthogonal columns for online comprehensive two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1326, 39-46.	1.8	16
61	Chemical fingerprinting of hydrocarbon-contamination in soil. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 606-618.	1.7	16
62	Univariate and multivariate characterization of heavy fuel oil weathering and biodegradation in soil. <i>Environmental Pollution</i> , 2008, 156, 297-305.	3.7	15
63	The use of environmental metabolomics to determine glyphosate level of exposure in rapeseed (<i>Brassica napus</i> L.) seedlings. <i>Environmental Pollution</i> , 2011, 159, 3071-3077.	3.7	15
64	Chemometric analysis of gas chromatography with flame ionisation detection chromatograms: A novel method for classification of petroleum products. <i>Journal of Chromatography A</i> , 2012, 1238, 121-127.	1.8	15
65	Full-scale bioremediation of diesel-polluted soil in an Arctic landfarm. <i>Environmental Pollution</i> , 2021, 280, 116946.	3.7	15
66	GC~HRMS nontarget fingerprinting of organic micropollutants in urban freshwater sediments. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	15
67	Measuring internal azole and pyrethroid pesticide concentrations in <i>Daphnia magna</i> using QuEChERS and GC-ECD~method development with a focus on matrix effects. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1055-1066.	1.9	14
68	PAH metabolism in the earthworm <i>Eisenia fetida</i> ~ identification of phase II metabolites of phenanthrene and pyrene. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 1151-1162.	1.8	14
69	Supercritical fluid chromatography for the analysis of oxygenated polycyclic aromatic compounds in unconventional oils. <i>Journal of Chromatography A</i> , 2019, 1589, 162-172.	1.8	14
70	Application of Multivariate Data Analysis for Assessing the Early Fate of Petrogenic Compounds in the Marine Environment Following the Baltic Carrier Oil Spill. <i>Polycyclic Aromatic Compounds</i> , 2002, 22, 703-714.	1.4	13
71	Bacterial Human Virulence Genes across Diverse Habitats As Assessed by In silico Analysis of Environmental Metagenomes. <i>Frontiers in Microbiology</i> , 2016, 7, 1712.	1.5	13
72	Halogenated organic contaminants in marine fish and mussels from southern Greenland~pilot study on relations to trophic levels and local sources. <i>Journal of Environmental Monitoring</i> , 2005, 7, 127-131.	2.1	12

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73	Metabolic fingerprinting of <i>Lactobacillus paracasei</i> : the optimal quenching strategy. <i>Microbial Cell Factories</i> , 2015, 14, 132.	1.9	12
74	Soil bacteria and protists show different sensitivity to polycyclic aromatic hydrocarbons at controlled chemical activity. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	12
75	Super-complex mixtures of aliphatic- and aromatic acids may be common degradation products after marine oil spills: A lab-study of microbial oil degradation in a warm, pre-exposed marine environment. <i>Environmental Pollution</i> , 2021, 285, 117264.	3.7	12
76	Metals and organotins in multiple bivalve species in a one-off global survey. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1793.	2.1	11
77	An untargeted gas chromatography mass spectrometry metabolomics platform for marine polychaetes. <i>Journal of Chromatography A</i> , 2015, 1384, 133-141.	1.8	11
78	A tiered analytical approach for target, non-target and suspect screening analysis of polar transformation products of polycyclic aromatic compounds. <i>Chemosphere</i> , 2019, 235, 175-184.	4.2	11
79	Occurrence and trophic transport of organic compounds in sedimentation ponds for road runoff. <i>Science of the Total Environment</i> , 2021, 751, 141808.	3.9	11
80	Biodegradation of water-accommodated aromatic oil compounds in Arctic seawater at 0°C. <i>Chemosphere</i> , 2022, 286, 131751.	4.2	11
81	A Tucker model based approach for analysis of complex oil biodegradation data. <i>Journal of Chromatography A</i> , 2009, 1216, 7865-7872.	1.8	10
82	Adsorption of mono- and di-butyltin by a wheat charcoal: pH effects and modeling. <i>Chemosphere</i> , 2012, 89, 863-868.	4.2	9
83	Interaction mechanisms between polycyclic aromatic hydrocarbons (PAHs) and organic soil washing agents. <i>Environmental Science and Pollution Research</i> , 2018, 25, 299-311.	2.7	9
84	Removal of volatile gasoline compounds by indoor potted plants studied by pixel-based fingerprinting analysis. <i>Chemosphere</i> , 2019, 221, 226-234.	4.2	9
85	From data to reliable conclusions: Identification and comparison of persistent micropollutants and transformation products in 37 wastewater samples by non-target screening prioritization. <i>Water Research</i> , 2022, 219, 118599.	5.3	9
86	Crude Oil and Refined Product Fingerprinting: Principles. , 1964, , 339-407.		8
87	Response characteristics and application of chalcogenide glass Cr(VI) selective electrode. <i>Sensors and Actuators B: Chemical</i> , 1997, 45, 239-243.	4.0	8
88	Metabolic fingerprinting of <i>Lactobacillus paracasei</i> : a multi-criteria evaluation of methods for extraction of intracellular metabolites. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6095-6104.	1.9	8
89	Selective pressurized liquid extraction of plant secondary metabolites: <i>Convallaria majalis</i> L. as a case. <i>Analytica Chimica Acta: X</i> , 2020, 4, 100040.	2.8	8
90	Application of Multivariate Data Analysis for Assessing the Early Fate of Petrogenic Compounds in the Marine Environment Following the Baltic Carrier Oil Spill. , 0, .		8

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91	A pre-processing strategy for liquid chromatography time-of-flight mass spectrometry metabolic fingerprinting data. <i>Metabolomics</i> , 2010, 6, 341-352.	1.4	7
92	Automated Peak Extraction and Quantification in Chromatography with Multichannel Detectors. <i>Analytical Chemistry</i> , 2012, 84, 2211-2218.	3.2	7
93	Removal of Polysorbate 80 by complexation prior to LC-MS analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2303-2307.	1.9	7
94	Complementary Analysis of the Water-Soluble and Water-Insoluble Fraction of Catalytic Fast Pyrolysis Biocrudes by Two-Dimensional Gas Chromatography. <i>Energy & Fuels</i> , 2018, 32, 5960-5968.	2.5	7
95	SPE-LC-MS investigations for the isolation and fractionation of acidic oil degradation products. <i>Analytica Chimica Acta</i> , 2018, 1038, 182-190.	2.6	7
96	Hyphenating supercritical fluid chromatography and inductively coupled plasma mass spectrometry: a proof of concept. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2852-2858.	1.6	7
97	Enhancing the power of liquid chromatography-Mass spectrometry for chemical fingerprinting of phytotoxins in the environment. <i>Journal of Chromatography A</i> , 2021, 1642, 462027.	1.8	7
98	Optimizing gradient conditions in online comprehensive two-dimensional reversed-phase liquid chromatography by use of the linear solvent strength model. <i>Journal of Separation Science</i> , 2017, 40, 3612-3620.	1.3	6
99	Seasonal trend and source identification of polycyclic aromatic hydrocarbons associated with fine particulate matters (PM _{2.5}) in Isfahan City, Iran, using diagnostic ratio and PMF model. <i>Environmental Science and Pollution Research</i> , 2022, 29, 26449-26464.	2.7	6
100	Separation, detection and identification of phase I and phase II metabolites and their corresponding polycyclic aromatic compounds. <i>Analytical Methods</i> , 2017, 9, 3323-3328.	1.3	5
101	Nontarget Analysis of Oxygenates in Catalytic Fast Pyrolysis Biocrudes by Supercritical Fluid Chromatography High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2019, 33, 296-306.	2.5	5
102	Optimization and validation of a derivatization method with boron trifluoride in ethanol for analysis of aromatic carboxylic acids in water. <i>Journal of Chromatography A</i> , 2019, 1601, 21-26.	1.8	4
103	Determination of the vaporization order of crude oils through the chemical analysis of crude oil residues burned on water. <i>Chemosphere</i> , 2021, 285, 131563.	4.2	4
104	A retrospective quantification study of benzoic acid, ibuprofen, and mecoprop in Danish groundwater samples. <i>Environmental Advances</i> , 2022, 7, 100180.	2.2	4
105	Crude Oil and Refined Product Fingerprinting: Applications. , 1964, , 409-464.		3
106	A multivariate approach to oil hydrocarbon fingerprinting and spill source identification. , 2016, , 747-788.		3
107	The development and validation of a GC-MS method for the quantification of glycolaldehyde formed from carbohydrate fragmentation processes. <i>Analytical Methods</i> , 2020, 12, 1975-1987.	1.3	3
108	A multivariate approach to oil hydrocarbon fingerprinting and spill source identification. , 2007, , 293-XII.		3

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109	Evaluation of chromatographic conditions in reversed phase liquid chromatography-mass spectrometry systems for fingerprinting of polar and amphiphilic plant metabolites. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5855-5865.	1.9	2
110	The Pixel-Based Chemometric Approach for Oil Spill Identification and Hydrocarbon Source Differentiation. , 2018, , 443-463.		2
111	Chemical composition analysis of carbohydrate fragmentation products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105112.	2.6	2
112	The "Gandalf" soil sampling project at a former industrial site in Copenhagen, Denmark: evaluating soil classification reliability. <i>Spectroscopy Europe</i> , 0, , 34.	0.0	2
113	Productivity and oil fingerprinting: Application of analytical chemistry in the assessment of reservoir quality. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107914.	2.1	2
114	Extraction optimization and pixel-based chemometric analysis of semi-volatile organic compounds in groundwater. <i>Analytical Methods</i> , 2017, 9, 5970-5979.	1.3	1
115	Different Forensic Approaches for Hydrocarbons Sources Identification in an Urban Cluster Environment. , 2018, , 563-591.		1
116	Examples of unwanted variation when characterising dissolved organic matter using direct injection electrospray mass spectrometry and chemometrics. <i>Analytical Methods</i> , 2018, 10, 2636-2646.	1.3	1
117	Tracing Production with Analytical Chemistry: Can Oil Finger Printing Provide New Answers. , 2019, , .		1
118	A study of the spatial distribution patterns of airborne polycyclic aromatic hydrocarbons in crowberry (<i>Empetrum nigrum</i>) in Ilulissat, Greenland. <i>Environmental Science and Pollution Research</i> , 2021, 28, 23133-23142.	2.7	1
119	Generic multicriteria approach to determine the best precipitation agent for removal of biomacromolecules prior to non-targeted metabolic analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1167, 122567.	1.2	1
120	Can analyte protectants compensate wastewater matrix induced enhancement effects in gas chromatography " mass spectrometry analysis?. <i>Journal of Chromatography A</i> , 2022, 1676, 463280.	1.8	1
121	Comparison of Quantitative and Semiquantitative Methods in Source Identification Following the OSPAR Oil Spill, in Paran, Brazil. , 2018, , 515-561.		0
122	The "Gandalf" soil sampling project at a former industrial site in Copenhagen, Denmark: evaluating soil classification reliability. <i>TOS Forum</i> , 2022, 2022, 443.	0.1	0