Charlotte Scheutz

List of Publications by Year
in descending order

135 papers	6,042 citations	57719 44 h-index	88593 70 g-index
135 all docs	135 docs citations	135 times ranked	4844 citing authors

#	Article	IF	Citations
1	Efficiency of gas collection systems at Danish landfills and implications for regulations. Waste Management, 2022, 139, 269-278.	3.7	14
2	Methane emissions from Icelandic landfills â€“ A comparison between measured and modelled emissions. Waste Management, 2022, 139, 136-145.	3.7	12
3	Quantification of methane emissions from cattle farms, using the tracer gas dispersion method. Agriculture, Ecosystems and Environment, 2022, 330, 107885.	2.5	11
4	Methane emissions from five Danish pig farms: Mitigation strategies and inventory estimated emissions. Journal of Environmental Management, 2022, 317, 115319.	3.8	14
5	Mitigation of methane emissions from three Danish landfills using different biocover systems. Waste Management, 2022, 149, 156-167.	3.7	9
6	Methane and ethane emission quantifications from onshore oil and gas sites in Romania, using a tracer gas dispersion method. Elementa, 2022, 10, .	1.1	5
7	Annual upscaling of methane emission field measurements from two Danish landfills, using empirical emission models. Waste Management, 2022, 150, 191-201.	3.7	3
8	Trace gas emissions from municipal solid waste landfills: A review. Waste Management, 2021, 119, 39-62.	3.7	83
9	Trace gas composition in landfill gas at Danish landfills receiving low-organic waste. Waste Management, 2021, 122, 113-123.	3.7	21
10	Mitigation of methane and trace gas emissions through a large-scale active biofilter system at Glatved landfill, Denmark. Waste Management, 2021, 126, 367-376.	3.7	6
11	Improving the analytical flexibility of thermal desorption in determining unknown VOC samples by using re-collection. Science of the Total Environment, 2021, 768, 144692.	3.9	7
12	Prediction of biochemical methane potential of urban organic waste using Fourier transform mid-infrared photoacoustic spectroscopy and multivariate analysis. Science of the Total Environment, 2021, 790, 147959.	3.9	5
13	Closing the methane mass balance for an old closed Danish landfill. Waste Management, 2020, 102, 179-189.	3.7	9
14	Biofiltration of diluted landfill gas in an active loaded open-bed compost filter. Waste Management, 2020, 103, 1-11.	3.7	16
15	Model-based interpretation of methane oxidation and respiration processes in landfill biocovers: 3-D simulation of laboratory and pilot experiments. Waste Management, 2020, 108, 160-171.	3.7	14
16	Phosphorus availability of sewage sludges and ashes in soils of contrasting pH. Journal of Plant Nutrition and Soil Science, 2020, 183, 682-694.	1.1	12
17	Assessment of a landfill methane emission screening method using an unmanned aerial vehicle mounted thermal infrared camera â€“ A field study. Waste Management, 2019, 87, 893-904.	3.7	34
18	Regulating landfills using measured methane emissions: An English perspective. Waste Management, 2019, 87, 860-869.	3.7	23

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19	Stable isotopic determination of methane oxidation: When smaller scales are better. Waste Management, 2019, 97, 82-87.	3.7	6
20	Total methane emission rates and losses from 23 biogas plants. Waste Management, 2019, 97, 38-46.	3.7	56
21	Replacement rates for second-hand clothing and household textiles â€“ A survey study from Malawi, Mozambique and Angola. Journal of Cleaner Production, 2019, 235, 1026-1036.	4.6	18
22	A Near-Field Gaussian Plume Inversion Flux Quantification Method, Applied to Unmanned Aerial Vehicle Sampling. Atmosphere, 2019, 10, 396.	1.0	25
23	Site-specific carbon footprints of Scandinavian wastewater treatment plants, using the life cycle assessment approach. Journal of Cleaner Production, 2019, 211, 1001-1014.	4.6	77
24	Life cycle assessment of garden waste management options including long-term emissions after land application. Waste Management, 2019, 86, 54-66.	3.7	24
25	Validation and error assessment of the mobile tracer gas dispersion method for measurement of fugitive emissions from area sources. Waste Management, 2019, 83, 68-78.	3.7	22
26	Landfill gas emission monitoring. Waste Management, 2019, 87, 833-834.	3.7	5
27	Evaluation of a European textile sorting centre: Material flow analysis and life cycle inventory. Resources, Conservation and Recycling, 2019, 143, 310-319.	5.3	37
28	Quantity and quality of clothing and household textiles in the Danish household waste. Waste Management, 2019, 87, 454-463.	3.7	26
29	Residual phosphorus availability after long-term soil application of organic waste. Agriculture, Ecosystems and Environment, 2019, 270-271, 65-75.	2.5	51
30	Treatment of landfill gas with low methane content by biocover systems. Waste Management, 2019, 84, 29-37.	3.7	32
31	Methodologies for measuring fugitive methane emissions from landfills â€“ A review. Waste Management, 2019, 87, 835-859.	3.7	108
32	Guidelines for landfill gas emission monitoring using the tracer gas dispersion method. Waste Management, 2019, 85, 351-360.	3.7	52
33	Measuring methane emissions from a UK landfill using the tracer dispersion method and the influence of operational and environmental factors. Waste Management, 2019, 87, 870-882.	3.7	28
34	Development and implementation of a screening method to categorise the greenhouse gas mitigation potential of 91 landfills. Waste Management, 2019, 87, 915-923.	3.7	12
35	AERMOD as a Gaussian dispersion model for planning tracer gas dispersion tests for landfill methane emission quantification. Waste Management, 2019, 87, 924-936.	3.7	29
36	Impact of meteorological parameters on extracted landfill gas composition and flow. Waste Management, 2019, 87, 905-914.	3.7	35

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37	Deriving Environmental Life Cycle Inventory Factors for Land Application of Garden Waste Products Under Northern European Conditions. Environmental Modeling and Assessment, 2019, 24, 21-35.	1.2	6
38	Life cycle assessment comparing the treatment of surplus activated sludge in a sludge treatment reed bed system with mechanical treatment on centrifuge. Journal of Cleaner Production, 2018, 185, 148-156.	4.6	9
39	A comparison of chemical MSW compositional data between China and Denmark. Journal of Environmental Sciences, 2018, 74, 1-10.	3.2	47
40	Emission quantification using the tracer gas dispersion method: The influence of instrument, tracer gas species and source simulation. Science of the Total Environment, 2018, 634, 59-66.	3.9	14
41	Optical technologies applied alongside on-site and remote approaches for climate gas emission quantification at a wastewater treatment plant. Water Research, 2018, 131, 299-309.	5.3	32
42	Life cycle assessment of sewage sludge management options including long-term impacts after land application. Journal of Cleaner Production, 2018, 174, 538-547.	4.6	92
43	Determination of gas recovery efficiency at two Danish landfills by performing downwind methane measurements and stable carbon isotopic analysis. Waste Management, 2018, 73, 220-229.	3.7	36
44	Life cycle inventory modeling of phosphorus substitution, losses and crop uptake after land application of organic waste products. International Journal of Life Cycle Assessment, 2018, 23, 1950-1965.	2.2	12
45	Landfill Gas Management by Methane Oxidation. , 2018, , 477-497.		6
46	On-site and ground-based remote sensing measurements of methane emissions from four biogas plants: A comparison study. Bioresource Technology, 2018, 270, 88-95.	4.8	21
47	Development and testing of a sorting and quality assessment method for textile waste. Waste Management, 2018, 79, 8-21.	3.7	41
48	Mitigation of methane emissions in a pilot-scale biocover system at the AV MiljÃ¸ Landfill, Denmark: 1. System design and gas distribution. Waste Management, 2017, 63, 213-225.	3.7	28
49	An MFA-based optimization model for increased resource efficiency: Phosphorus flows in Denmark. Resources, Conservation and Recycling, 2017, 122, 1-10.	5.3	21
50	Mitigation of methane emissions in a pilot-scale biocover system at the AV MiljÃ¸ Landfill, Denmark: 2. Methane oxidation. Waste Management, 2017, 63, 203-212.	3.7	32
51	Microbial population dynamics in urban organic waste anaerobic co-digestion with mixed sludge during a change in feedstock composition and different hydraulic retention times. Water Research, 2017, 118, 261-271.	5.3	136
52	Rapid biochemical methane potential prediction of urban organic waste with near-infrared reflectance spectroscopy. Water Research, 2017, 119, 242-251.	5.3	25
53	Assessment of a combined dry anaerobic digestion and post-composting treatment facility for source-separated organic household waste, using material and substance flow analysis and life cycle inventory. Waste Management, 2017, 66, 23-35.	3.7	31
54	Assessment of methane production from shredder waste in landfills: The influence of temperature, moisture and metals. Waste Management, 2017, 63, 226-237.	3.7	17

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55	Comparative use of different emission measurement approaches to determine methane emissions from a biogas plant. Waste Management, 2017, 68, 173-185.	3.7	40
56	Gas composition of sludge residue profiles in a sludge treatment reed bed between loadings. Water Science and Technology, 2017, 76, 2304-2312.	1.2	2
57	Environmental impacts and resource losses of incinerating misplaced household special wastes (WEEE, batteries, ink cartridges and cables). Resources, Conservation and Recycling, 2017, 122, 251-260.	5.3	37
58	Statistical analysis of solid waste composition data: Arithmetic mean, standard deviation and correlation coefficients. Waste Management, 2017, 69, 13-23.	3.7	65
59	Greenhouse gas emissions from the mineralisation process in a Sludge Treatment Reed Bed system: Seasonal variation and environmental impact. Ecological Engineering, 2017, 106, 279-286.	1.6	11
60	Assessment of a Danish sludge treatment reed bed system and a stockpile area, using substance flow analysis. Water Science and Technology, 2017, 76, 2291-2303.	1.2	5
61	Effects of thermal drying on phosphorus availability from ironâ€precipitated sewage sludge. Journal of Plant Nutrition and Soil Science, 2017, 180, 720-728.	1.1	13
62	Greenhouse gas emission quantification from wastewater treatment plants, using a tracer gas dispersion method. Science of the Total Environment, 2017, 605-606, 258-268.	3.9	71
63	Quantification of greenhouse gas emissions from a biological waste treatment facility. Waste Management, 2017, 67, 375-384.	3.7	32
64	Food waste from Danish households: Generation and composition. Waste Management, 2016, 52, 256-268.	3.7	112
65	Estimation of long-term environmental inventory factors associated with land application of sewage sludge. Journal of Cleaner Production, 2016, 126, 440-450.	4.6	25
66	Evaluation of a new pulping technology for pre-treating source-separated organic household waste prior to anaerobic digestion. Waste Management, 2016, 50, 65-74.	3.7	12
67	Global warming potential of material fractions occurring in source-separated organic household waste treated by anaerobic digestion or incineration under different framework conditions. Waste Management, 2016, 58, 397-407.	3.7	44
68	Optimising the anaerobic co-digestion of urban organic waste using dynamic bioconversion mathematical modelling. Water Research, 2016, 106, 283-294.	5.3	28
69	Physico-chemical characterisation of material fractions in residual and source-segregated household waste in Denmark. Waste Management, 2016, 54, 13-26.	3.7	34
70	The effect of data structure and model choices on MFA results: A comparison of phosphorus balances for Denmark and Austria. Resources, Conservation and Recycling, 2016, 109, 166-175.	5.3	18
71	Long-Term Emission Factors for Land Application of Treated Organic Municipal Waste. Environmental Modeling and Assessment, 2016, 21, 111-124.	1.2	34
72	Comparison of the organic waste management systems in the Danishâ€“German border region using life cycle assessment (LCA). Waste Management, 2016, 49, 491-504.	3.7	64

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73	Characterisation of the biochemical methane potential (BMP) of individual material fractions in Danish source-separated organic household waste. Waste Management, 2016, 50, 39-48.	3.7	45
74	Physico-chemical characterisation of material fractions in household waste: Overview of data in literature. Waste Management, 2016, 49, 3-14.	3.7	54
75	Phosphorus in Denmark: National and regional anthropogenic flows. Resources, Conservation and Recycling, 2015, 105, 311-324.	5.3	58
76	Municipal solid waste composition: Sampling methodology, statistical analyses, and case study evaluation. Waste Management, 2015, 36, 12-23.	3.7	210
77	Source segregation of food waste in office areas: Factors affecting waste generation rates and quality. Waste Management, 2015, 46, 94-102.	3.7	18
78	Evaluation and application of site-specific data to revise the first-order decay model for estimating landfill gas generation and emissions at Danish landfills. Journal of the Air and Waste Management Association, 2015, 65, 686-698.	0.9	29
79	Importance of food waste pre-treatment efficiency for global warming potential in life cycle assessment of anaerobic digestion systems. Resources, Conservation and Recycling, 2015, 102, 58-66.	5.3	42
80	Effects of sewage sludge stabilization on fertilizer value and greenhouse gas emissions after soil application. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2015, 65, 506-516.	0.3	12
81	Assessment of biogas production from MBT waste under different operating conditions. Waste Management, 2015, 43, 37-49.	3.7	22
82	Evaluating the methane generation rate constant (k value) of low-organic waste at Danish landfills. Waste Management, 2015, 35, 170-176.	3.7	29
83	Quantification of methane emissions from 15 Danish landfills using the mobile tracer dispersion method. Waste Management, 2015, 35, 177-186.	3.7	98
84	Influence of data collection schemes on the Life Cycle Assessment of a municipal wastewater treatment plant. Water Research, 2014, 56, 292-303.	5.3	139
85	Mitigation of methane emission from an old unlined landfill in Klintholm, Denmark using a passive biocover system. Waste Management, 2014, 34, 1179-1190.	3.7	60
86	Quantifying methane emission from fugitive sources by combining tracer release and downwind measurements â€“ A sensitivity analysis based on multiple field surveys. Waste Management, 2014, 34, 1416-1428.	3.7	91
87	The impact of bioaugmentation on dechlorination kinetics and on microbial dechlorinating communities in subsurface clay till. Environmental Pollution, 2014, 186, 149-157.	3.7	17
88	Evaluating the biochemical methane potential (BMP) of low-organic waste at Danish landfills. Waste Management, 2014, 34, 2251-2259.	3.7	38
89	Assessing methods to estimate emissions of non-methane organic compounds from landfills. Waste Management, 2014, 34, 2260-2270.	3.7	10
90	Effects of bioaugmentation on enhanced reductive dechlorination of 1,1,1-trichloroethane in groundwater: a comparison of three sites. Biodegradation, 2014, 25, 459-478.	1.5	12

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91	Stable carbon isotope analysis to distinguish biotic and abiotic degradation of 1,1,1-trichloroethane in groundwater sediments. Chemosphere, 2014, 108, 265-273.	4.2	17
92	Plant-integrated measurement of greenhouse gas emissions from a municipal wastewater treatment plant. Water Research, 2014, 61, 108-118.	5.3	106
93	Review of reactive kinetic models describing reductive dechlorination of chlorinated ethenes in soil and groundwater. Biotechnology and Bioengineering, 2013, 110, 1-23.	1.7	96
94	A conceptual model linking functional gene expression and reductive dechlorination rates of chlorinated ethenes in clay rich groundwater sediment. Water Research, 2013, 47, 2467-2478.	5.3	25
95	WEEE and portable batteries in residual household waste: Quantification and characterisation of misplaced waste. Waste Management, 2013, 33, 2372-2380.	3.7	39
96	Identification of chlorinated solvents degradation zones in clay till by high resolution chemical, microbial and compound specific isotope analysis. Journal of Contaminant Hydrology, 2013, 146, 37-50.	1.6	66
97	Life cycle assessment of sewage sludge management: A review. Waste Management and Research, 2013, 31, 1083-1101.	2.2	150
98	An Environmental Evaluation of Nutrient Recovery Through Land Application of Biosolid. Proceedings of the Water Environment Federation, 2012, 2012, 7765-7772.	0.0	0
99	Home composting as an alternative treatment option for organic household waste in Denmark: An environmental assessment using life cycle assessment-modelling. Waste Management, 2012, 32, 31-40.	3.7	102
100	A remediation performance model for enhanced metabolic reductive dechlorination of chloroethenes in fractured clay till. Journal of Contaminant Hydrology, 2012, 131, 64-78.	1.6	33
101	Development and Sensitivity Analysis of a Fully Kinetic Model of Sequential Reductive Dechlorination in Groundwater. Environmental Science & Technology, 2011, 45, 8395-8402.	4.6	25
102	Natural and enhanced anaerobic degradation of 1,1,1-trichloroethane and its degradation products in the subsurface â€“ A critical review. Water Research, 2011, 45, 2701-2723.	5.3	93
103	Availability and properties of materials for the Fakse Landfill biocover. Waste Management, 2011, 31, 884-894.	3.7	40
104	Mitigation of methane emission from Fakse landfill using a biowindow system. Waste Management, 2011, 31, 1018-1028.	3.7	59
105	Gas production, composition and emission at a modern disposal site receiving waste with a low-organic content. Waste Management, 2011, 31, 946-955.	3.7	37
106	Evaluation of respiration in compost landfill biocovers intended for methane oxidation. Waste Management, 2011, 31, 895-902.	3.7	52
107	Quantification of multiple methane emission sources at landfills using a double tracer technique. Waste Management, 2011, 31, 1009-1017.	3.7	81
108	Mass balances and life cycle inventory of home composting of organic waste. Waste Management, 2011, 31, 1934-1942.	3.7	97

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109	Quantification of Greenhouse Gas Emissions from Windrow Composting of Garden Waste. Journal of Environmental Quality, 2010, 39, 713-724.	1.0	105
110	Release and fate of fluorocarbons in a shredder residue landfill cell: 2. Field investigations. Waste Management, 2010, 30, 2163-2169.	3.7	11
111	Greenhouse gas emissions from home composting of organic household waste. Waste Management, 2010, 30, 2475-2482.	3.7	126
112	Substitution of peat, fertiliser and manure by compost in hobby gardening: User surveys and case studies. Waste Management, 2010, 30, 2483-2489.	3.7	20
113	Tracer method to measure landfill gas emissions from leachate collection systems. Waste Management, 2010, 30, 2146-2152.	3.7	48
114	Release and fate of fluorocarbons in a shredder residue landfill cell: 1. Laboratory experiments. Waste Management, 2010, 30, 2153-2162.	3.7	14
115	Mass balances and life-cycle inventory for a garden waste windrow composting plant (Aarhus,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	51
116	Field Evaluation of Biological Enhanced Reductive Dechlorination of Chloroethenes in Clayey Till. Environmental Science & Technology, 2010, 44, 5134-5141.	4.6	68
117	Mass balances and life-cycle inventory for a garden waste windrow composting plant (Aarhus,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	8
118	Biodegradation of Methane and Halocarbons in Simulated Landfill Biocover Systems Containing Compost Materials. Journal of Environmental Quality, 2009, 38, 1363-1371.	1.0	42
119	Greenhouse gases, radiative forcing, global warming potential and waste management â€" an introduction. Waste Management and Research, 2009, 27, 716-723.	2.2	51
120	Microbial methane oxidation processes and technologies for mitigation of landfill gas emissions. Waste Management and Research, 2009, 27, 409-455.	2.2	406
121	Atmospheric emissions and attenuation of non-methane organic compounds in cover soils at a French landfill. Waste Management, 2008, 28, 1892-1908.	3.7	91
122	Concurrent Ethene Generation and Growth of Dehalococcoides Containing Vinyl Chloride Reductive Dehalogenase Genes During an Enhanced Reductive Dechlorination Field Demonstration. Environmental Science & Technology, 2008, 42, 9302-9309.	4.6	128
123	Transport and Reaction Processes Affecting the Attenuation of Landfill Gas in Cover Soils. Journal of Environmental Quality, 2008, 37, 459-468.	1.0	49
124	Release of Fluorocarbons from Insulation Foam in Home Appliances during Shredding. Journal of the Air and Waste Management Association, 2007, 57, 1452-1460.	0.9	12
125	Attenuation of Fluorocarbons Released from Foam Insulation in Landfills. Environmental Science & Technology, 2007, 41, 7714-7722.	4.6	24
126	Dynamics of reductive TCE dechlorination in two distinct H2 supply scenarios and at various temperatures. Biodegradation, 2007, 18, 167-179.	1.5	33

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127	Biodegradation of Trace Gases in Simulated Landfill Soil. Journal of the Air and Waste Management Association, 2005, 55, 878-885.	0.9	42
128	Environmental Factors Influencing Attenuation of Methane and Hydrochlorofluorocarbons in Landfill Cover Soils. Journal of Environmental Quality, 2004, 33, 72-79.	1.0	107
129	Attenuation of Methane and Volatile Organic Compounds in Landfill Soil Covers. Journal of Environmental Quality, 2004, 33, 61-71.	1.0	90
130	Attenuation of Methane and Volatile Organic Compounds in Landfill Soil Covers. Journal of Environmental Quality, 2004, 33, 61.	1.0	39
131	Environmental Factors Influencing Attenuation of Methane and Hydrochlorofluorocarbons in Landfill Cover Soils. Journal of Environmental Quality, 2004, 33, 72.	1.0	42
132	Short- and Long-Term Releases of Fluorocarbons from Disposal of Polyurethane Foam Waste. Environmental Science & Technology, 2003, 37, 5071-5079.	4.6	38
133	Capacity for Biodegradation of CFCs and HCFCs in a Methane Oxidative Counter-Gradient Laboratory System Simulating Landfill Soil Covers. Environmental Science & Technology, 2003, 37, 5143-5149.	4.6	78
134	Removal of Halogenated Organic Compounds in Landfill Gas by Top Covers Containing Zero-Valent Iron. Environmental Science & Technology, 2000, 34, 2557-2563.	4.6	23
135	Landfill Top Covers. , 0, , 830-840.		0