Effect of sewage sludge and digestate from anaerobic fermentation as soil additives on the nutritional status and accumulation of non-essential elements in plants with different nutrition strategies

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Online Resource 2 Total concentration of essential elements and distribution of elements in three operationally defined soil fractions (µg g^{-1}) according to Wiche et al. (2017) and Monei et al. (2022). Fraction 1 (F1): mobile, exchangeable elements, Fraction 2 (F2): bound to organics. Fraction 3 (F3): bound to amorphous oxides). All values are based on dry weight. Mean ± standard error (n = 5). Concentrations within the same element fraction between different substrates were compared by t-tests with Bonferroni adjustment. Means with different letters are statistically significantly different at α= 5%

Element	Fraction	Sewage sludge	Digestate
As	Total	3.3 ± 2.4	2.0 ± 1.1
	F1	0.15 ± 0.01b	1.09 ± 0.05a
	F2	0.11 ± 0.02	0.09 ± 0.01
	F3	1.76 ± 0.07a	0.28 ± 0.05b
Cd	Total	1.23 ± 0.57a	0.57 ± 0.15b
	F1	1.20 ± 0.17a	0.28 ± 0.07b
	F2	0.60 ± 0.08	0.58 ± 0.21
	F3	1.40 ± 0.21a	0.86 ± 0.11b
Pb	Total	232 ± 43a	37 ± 11b
	F1	5.8 ± 0.2a	0.34 ± 0.18b
	F2	1.2 ± 0.2	1.3 ± 1.1
	F3	109 ± 5a	12 ± 1b
Ge	Total	0.53 ± 0.05	0.60 ± 0.09
	F1	0.0029 ± 0.0005a	0.0008 ± 0.0006b
	F2	0.038 ± 0.002b	0.246 ± 0.022a
	F3	0.09 ± 0.01	0.09 ± 0.02
Ga	Total	5.6 ± 0.3b	19.0 ± 2.9a
	F1	0.007 ± 0.001b	0.13 ± 0.03a
	F2	<0.01b	0.88 ± 0.74a
	F3	3.6 ± 0.2	15.9 ± 1.9
REE	Total	36.6 ± 0.6a	22.4 ± 13.2b
	F1	0.08 ± 0.01	0.09 ± 0.05
	F2	<0.01b	0.17 ± 0.11a
	F3	2.4 ± 0.4a	1.3 ± 0.1b