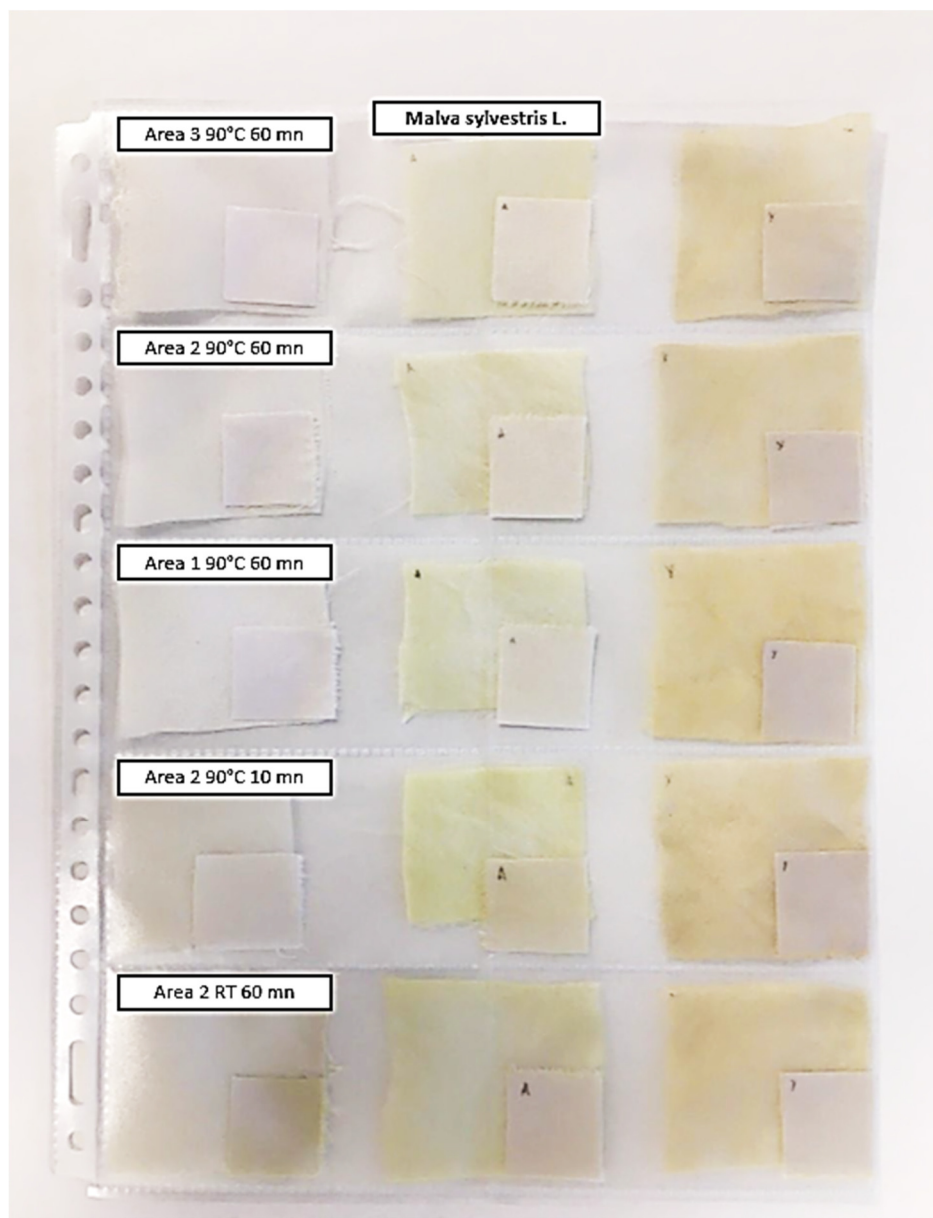


Supplemental Figure S1. Water pH in sediment on Area 1 (green), Area 2 (blue), and Area 3 (orange) at the start (n = 5) and at harvest (n = 10) (the box plots indicate the median (black line) and the 25 (lower bar) and 75 (upper bar) percentiles; red cross = mean). Significant differences between conditions are indicated by different letters at the level of $\alpha = 0.05$.



Supplemental Figure 2. Picture of fabric dyed with *Malva sylvestris* L. extract depending on the area of cultivation, the temperature of extraction, the fabric origins, and the pretreatment. The small fabric squares are cotton, and the large fabric squares are silk. From left to right, the fabric was either not pretreated, pretreated with alum, and pretreated with iron.

Supplemental Table 1. List of the agronomic analyses and methods performed by the subcontracted laboratory.

Parameter	Method
Carbon (g kg ⁻¹)	NF ISO 14235
Organic matter (g kg ⁻¹)	calculated
C/N *	calculated
CEC (meq 100 g ⁻¹)	NF X 31-130
CaO g kg ⁻¹	NF X 31-108
N kjeldahl TNK +++ (g kg ⁻¹)	NF ISO 11 261
Phosphorus Olsen (g kg ⁻¹) P ₂ O ₅	NF ISO 11 263
pH-H ₂ O	NF ISO 10390
Clay	NF X 31-107 modified
Silt	NF X 31-107 modified
Sand	NF X 31-107 modified

Supplemental Table 2. Percentage of mobile trace elements (Cd, Cu, Pb, Zn) calculated as extractable concentrations over total concentrations in sediment at the three areas, at the start (n = 5), and at the harvest (n = 10) (mean ± SD). Significant differences between conditions are indicated by different letters (normal or italic) or numbers (normal or italic) at the level of $\alpha = 0.05$ (Tukey HSD test).

		Cd	Cu	Pb	Zn
Area 1	At the start	0.51 (0.09) ^{a,b}	0.47 (0.07) ^a	0.007 (0.003) ¹	0.06 (0.006) ¹
	At harvest	0.5 (0.06) ^b	0.6 (0.07) ^{a,b}	0.009 (0.003) ¹	0.07 (0.005) ^{1,3}
Area 2	At the start	0.69 (0.06) ^a	0.68 (0.1) ^{b,c}	0.006 (0.001) ¹	0.09 (0.01) ^{2,3}
	At harvest	0.68 (0.13) ^a	0.74 (0.14) ^c	0.012 (0.005) ¹	0.1 (0.02) ²
Area 3	At the start	0.57 (0.06) ^{a,b}	0.47 (0.07) ^a	0.005 (0.003) ¹	0.08 (0.02) ^{1,2}
	At harvest	0.56 (0.13) ^{a,b}	0.62 (0.08) ^{a,b,c}	0.007 (0.004) ¹	0.08 (0.03) ^{1,2}

Supplemental Table 3. OEKO-Tex TE concentration threshold limit value (extractable and total in µg g⁻¹) in textile directly in contact with skin.

	Cd	Cu	Pb	Zn
Extractable	0.1	50	1	750
Total	40	-	90	-