Supplementary materials

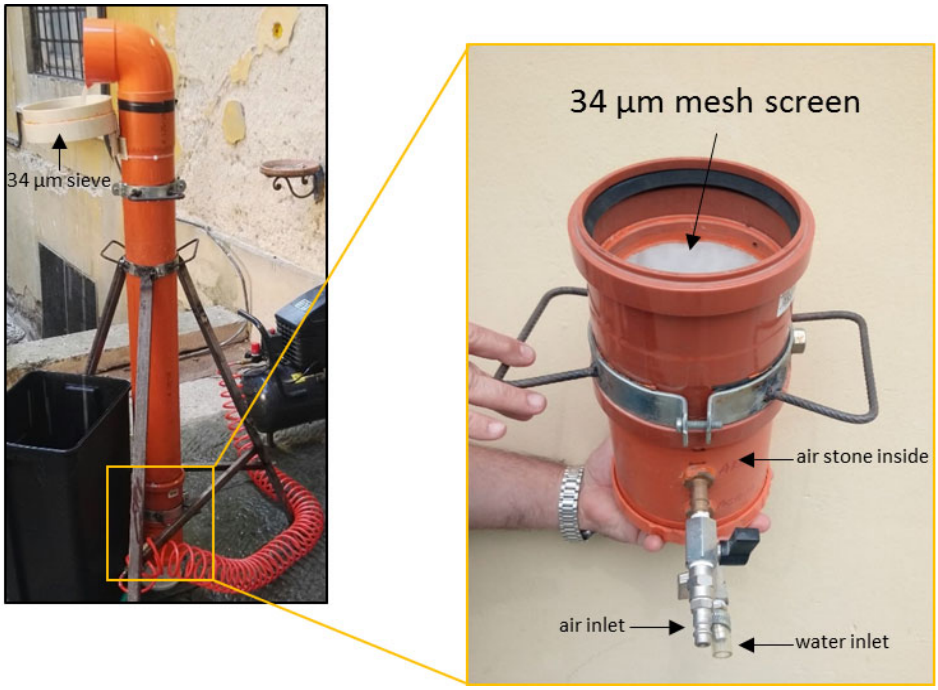


Figure S1. The device, adapted from Claessens et al. [31], used to extract/concentrate the microplastics. To avoid the collection of airborne particles, the upper part of the device, i.e. its outlet and 34 µm sieve, were sealed from air with aluminum foils during the elutriation of each sample.

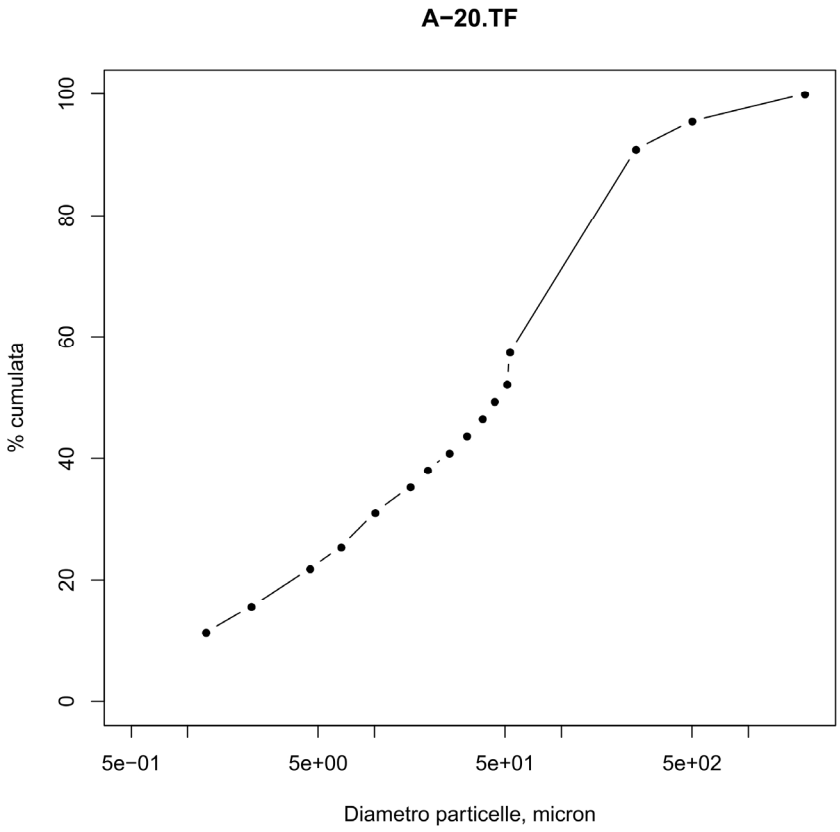
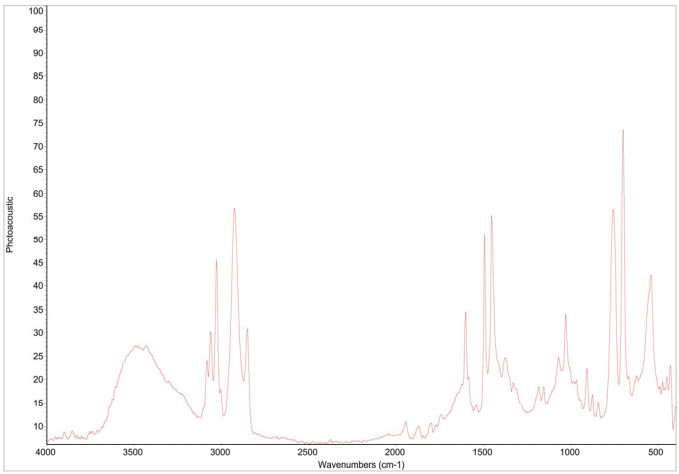
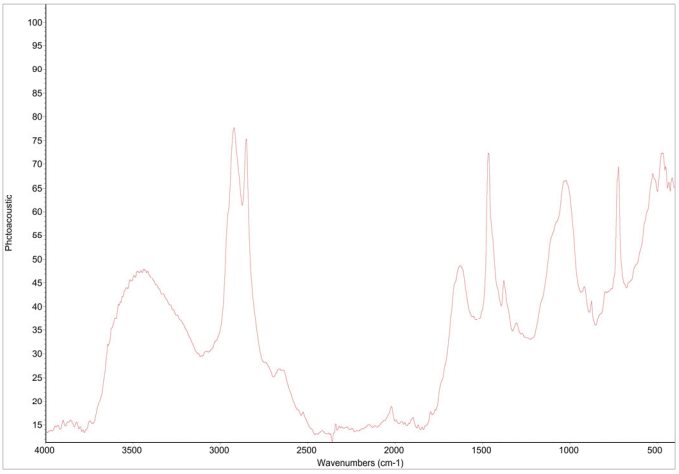


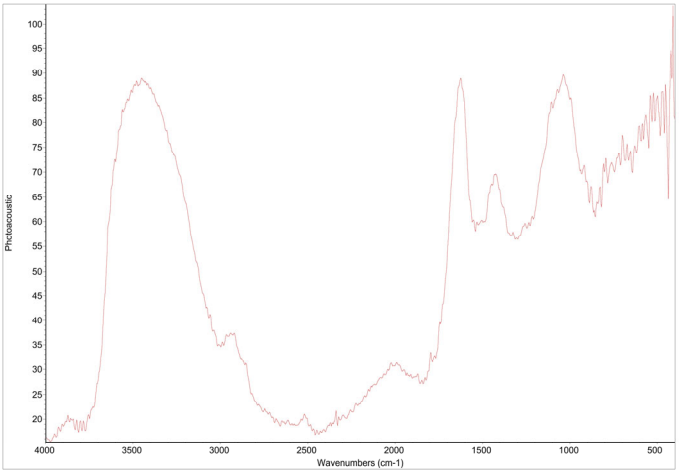
Figure S2. Particle size distribution of the sample A-20. Particles larger than 50 μm were separated by wet sieving, while the smaller ones were measured by densimetry.



(a) refractive white piece form sample *B-20 (FEm)-IN* identified as polystyrene



(b) refractive transparent piece form sample *D-20 (WSm)-NoD* identified as polyethylene



(c) a brown opaque piece form sample *E-20 (FEm)-OUT* identified as organic material

Figure S3. Three examples of FTIR-PAS spectra of MP pieces recovered from some soil samples by elutriation and subsequent flotation in the NaI solution (3.3 M, d = 1.6 g cm^{-3}).#

Table S1. Plastic, 34 μm < diameter < 2 mm, dry matter at 105°C mg kg^{-1} of soil sieved at 2 mm. IN, OUT, and NoD refer to plastic in, out, and not introduced into the device, respectively.

Sample name	MP.IN.mg.kg	MP.OUT.mg.kg	IN.minus.OUT	MP.NO.mg.kg	MP.TOT.mg.kg
A-20 (WSm)	2.16	1.00	1.16	0.00	3.16
A-40 (WSm)	0.20	0.00	0.20	16.90	17.10
B-20 (WSm)	5.98	0.00	5.98	1.88	7.86
B-40 (WSm)	3.01	0.00	3.01	58.52	61.53
C-20 (WSm)	3.96	31.35	-27.39	101.32	136.63
C-40 (WSm)	0.00	0.00	0.00	81.21	81.21
D-20 (WSm)	1.73	0.13	1.60	93.52	95.38
E-20 (WSm)	1.00	0.21	0.79	0.00	1.21
A-20 (FEm)	0.51	0.35	0.16		0.86
A-40 (FEm)	1.18	0.68	0.50		1.86
B-20 (FEm)	2.83	10.90	-8.07		13.73
B-40 (FEm)	26.42	8.80	17.62		35.22
C-20 (FEm)	63.70	0.08	63.62		63.78
C-40 (FEm)	80.09	8.25	71.84		88.34
D-20 (FEm)	2.01	105.81	-103.80		107.82
E-20 (FEm)	70.23	26.10	44.13		96.33

[1] Tables may have a footer.