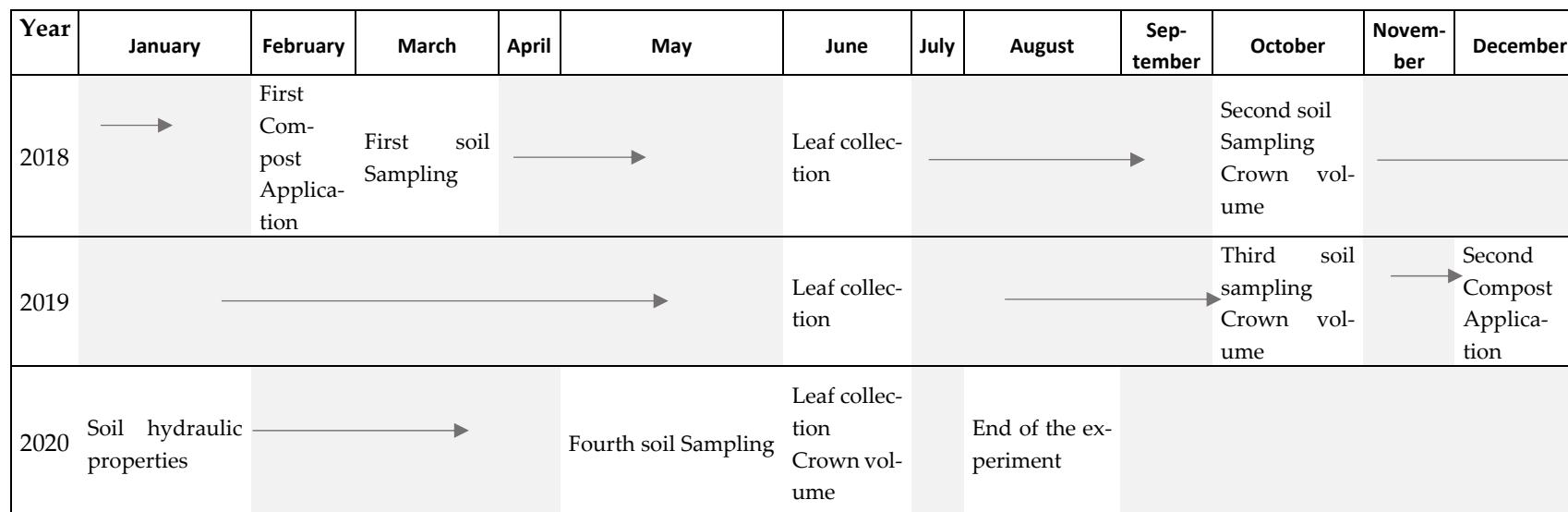


**Figure S1.** Total monthly rainfall and monthly mean values of average temperature and relative humidity. The graph indicates the sampling time and compost application. Period January 2018–August 2020.

**Table S1.** Sequence and chronological steps in compost application and samplings.

**Table S2.** Trace metals in soil under different treatments AC (alperujo compost), AC<sup>+</sup> (high dose of alperujo compost), BC (biosolid compost), BC<sup>+</sup> (high dose of biosolid compost).

Trace metals	AC	AC <sup>+</sup>	BC	BC <sup>+</sup>	Control
Fe (g kg <sup>-1</sup> )	10.2 ± 1.87	10.0 ± 2.27	8.99 ± 2.31	10.8 ± 2.10	10.9 ± 2.36
Mn (mg kg <sup>-1</sup> )	112 ± 15	91.8 ± 4	117 ± 16	136 ± 27	102 ± 9
Cu (mg kg <sup>-1</sup> )	59.1 ± 2.4	58.7 ± 2.5	63.3 ± 3.0	69.3 ± 5.8	60.0 ± 3.9
Zn (mg kg <sup>-1</sup> )	16.2 ± 2.1	15.4 ± 2.1	23.1 ± 4.0	31.9 ± 6.7	16.8 ± 3.2
Pb (mg kg <sup>-1</sup> )	11.3 ± 2.9	8.1 ± 0.5	9.3 ± 0.5	11.8 ± 1.8	8.4 ± 0.8
As (mg kg <sup>-1</sup> )	4.25 ± 0.57	4.60 ± 1.67	4.06 ± 1.07	4.37 ± 0.90	5.02 ± 1.28
B (mg kg <sup>-1</sup> )	3.26 ± 0.78	2.39 ± 0.30	2.80 ± 1.55	2.74 ± 1.31	2.42 ± 0.65
Cd (mg kg <sup>-1</sup> )	0.01 ± 0.01	0.09 ± 0.03	0.11 ± 0.04	0.09 ± 0.03	0.09 ± 0.03

**Table S3.** Trace metals in leaves under different treatments AC (alperujo compost), AC<sup>+</sup> (high dose of alperujo compost), BC (biosolid compost), BC<sup>+</sup> (high dose of biosolid compost).

	AC	AC <sup>+</sup>	BC	BC <sup>+</sup>	Control
2018	52.7 ± 9	2.72	52.3 ±	2.84	60.6 ± 9
Fe (mg kg <sup>-1</sup> )	74.4 2019 1)	2.08	75.7 ± 8	2.30	75.0 ± 8
2020	57.8 ± 8	1.68	56.2 ±	2.17	55.9 ± 8
2018	10.3 ± 5	0.84	8.8 ±	1.41	10.4 ± 5
Mn (mg kg <sup>-1</sup> )	14.4 2019	1.54	10.8 ± 2	1.88	14.4 ± 2
2020	11.2 ± 0	0.83	9.5 ±	1.07	11.9 ± 0
					2.67
					12. ± 0
					1.82
					15.0 ± 0
					1.01

		14.8	$\pm$	4.85	21.7	$\pm$	7.85	24.1	$\pm$	8.56	16.	$\pm$	3.81	21.5	$\pm$	6.60
Cu (mg kg <sup>-1</sup> )	2018	196	$\pm$	12.2	198	$\pm$	27.0	236	$\pm$	8.82	206	$\pm$	16.4	202	$\pm$	33.5
	2019	62.7	$\pm$	25.1	43.8	$\pm$	5.02	86.0	$\pm$	27.5	66.	$\pm$	26.8	38.3	$\pm$	7.76
	2020	13.5	$\pm$	1.51	12.7	$\pm$	1.24	13.5	$\pm$	1.38	13.	$\pm$	0.58	14.2	$\pm$	1.19
Zn (mg kg <sup>-1</sup> )	2018	9.57	$\pm$	1.07	9.63	$\pm$	0.86	9.38	$\pm$	0.93	10.	$\pm$	1.33	9.19	$\pm$	0.49
	2019	13.3	$\pm$	1.77	14.3	$\pm$	0.36	13.1	$\pm$	1.38	14.	$\pm$	0.47	14.5	$\pm$	1.16
Pb (mg kg <sup>-1</sup> )	2018	0.06	$\pm$	0.06	0.11	$\pm$	0.07	0.20	$\pm$	0.07	0.1	$\pm$	0.07	0.07	$\pm$	0.05
	2019	0.14	$\pm$	0.11	0.59	$\pm$	0.38	0.00	$\pm$	0.00	0.0	$\pm$	0.02	0.06	$\pm$	0.06
	2020	0.51	$\pm$	0.23	1.64	$\pm$	0.75	0.88	$\pm$	0.37	0.7	$\pm$	0.31	0.87	$\pm$	0.51
As (mg kg <sup>-1</sup> )	2018	0.49	$\pm$	0.22	0.32	$\pm$	0.30	0.58	$\pm$	0.19	0.0	$\pm$	0.00	0.13	$\pm$	0.08
	2019	0.61	$\pm$	0.09	0.85	$\pm$	0.09	0.65	$\pm$	0.07	0.6	$\pm$	0.05	0.73	$\pm$	0.14
	2020	-		-	-		-	-		-	-		-			-
B(mg kg <sup>-1</sup> )	2018	17.6	$\pm$	0.68	17.2	$\pm$	0.43	15.5	$\pm$	0.88	16.	$\pm$	0.73	16.9	$\pm$	0.56
	2019	14.8	$\pm$	0.52	14.3	$\pm$	0.62	14.6	$\pm$	0.30	16.	$\pm$	2.70	14.4	$\pm$	0.76
	2020	16.1	$\pm$	0.39	16.8	$\pm$	0.20	15.2	$\pm$	0.54	15.	$\pm$	0.23	16.5	$\pm$	0.79

	2018	0.01	0.01	0.03	0.01	0.02	0.01	0.0	0.01	0.02	0.01
		± 4	± 0	± 1	± 4	± 5	± 1	± 35	± 3	± 2	± 6
Cd	2019	0.06	0.02	0.09	0.04	0.02	0.01	0.0	0.03	0.12	0.03
(mg kg <sup>-1</sup> )		± 9	± 9	± 0	± 2	± 7	± 6	± 54	± 2	± 2	± 1
	2020	0.06	0.01	0.06	0.04	0.03	0.01	0.0	0.02	0.03	0.01
		± 7	± 8	± 5	± 0	± 5	± 5	± 99	± 6	± 0	± 7
Ni (mg kg <sup>-1</sup> )	2018	0.46	± 0.08	0.48	± 0.10	0.75	± 0.17	0.4	± 0.14	0.70	± 0.10
								6			
	2019	0.59	± 0.15	0.36	± 0.29	0.83	± 0.21	0.4	± 0.19	1.00	± 0.29
								6			
	2020	0.70	± 0.24	0.45	± 0.26	0.36	± 0.18	0.4	± 0.29	0.65	± 0.23
								1			