



Figure S1. Plant development at 21 days.



Figure S2. One individual plant from each treatment: 1- CNT-COOH; 2- Fe_3O_4 ; 3- MnO_2 ; 4- Control; 5- CNT- Fe_3O_4 ; 6- CNT- MnO_2 ; 7- CNT- Fe_3O_4 - MnO_2 .

Table S1. Elemental composition of lettuce leaves described in the literature.

	Na*	Mg*	Al**	Cl*	K*	Ca*	Mn**	Sc***	Fe**	Co***	References
I ^a ; m.a.	0.14±0.03				6.3±1.4	0.51±0.08			16.1±3.0	7.9±1.7	[44]
O ^a ; m.a.	0.34±0.07				8.3±1.9	1.17±0.18			44±13	19.3±5.6	
I ^b ; m.a.	0.17±0.14				7.2±0.8	0.54±0.05			16.9±4.6	8.4±1.7	
O ^b ; m.a.	0.31±0.11				10.7±1.7	1.29±0.06			53.2±3.6	30±10	
									530.4 ¹	7200 ¹	[40]
m.a.	2.9±0.7	3.6±0.7	3524±318	17.9±0.4		13.3±0.6	68.81±0.22		1506±54.3 ²	1010±160 ²	
C ; c.s.	4.2	5.2		22.8	96.1	30.3	0.042		0.42	302	[35]
c.s.	6-10.3	3.6-6.8		8.5-15.1	52.7-74.9	14.9-22.9	0.013-0.038		0.19-0.97	76-1026	
O; m.a. ³	1.93±0.01	3.2±0.014			84.8±1.7	12.9±0.15	157.6±3.1		343±24	0.13±0.05	[37]
O; m.a.; ²	2.4±0.8				82±13	9.92±0.45			409±28	0.23±0.08	
I; m.a.; ³	0.74±0.04	2.04±0.01			54.3±0.1	5.0±0.28	38.2±1.2		102±10	0.067±0.02	
I; m.a.; ²	1.3±1.1				55.1±6	4.18±0.04			130±35		
c.s.		3.9-6.1			35.7-56.0	16.7-26.3	43.9-89.2		160-514		[36]
C		5.1			66.0	19.0	136		316		
c.s.	1.3-9.1	3.8-4.5	5.6-103		12.8-27.3	3.8-14.6	8.0-41		41-159	30-190	[39]
			73					7-12			[34]
p.w.c.			1634- 6450				113-170	70-37100	349-1087	0.2-72	[46]
u.c.	1.2-3.7	2.3-4.2		54-125	36-93	4.3-7.6	10-23		91-393	1000-21000	[38]

Table S1. Continuation.

	Zn**	As***	Se***	Br**	Rb**	Sr**	Mo**	Sb***	Cs***	Ba**	Th***	References
I ^a ; m.a.	4.99±0.58	13±6.7		1.27±0.23	1.19±0.1	2.45±0.39		<8				
O ^a ; m.a.	3.55±0.60	43±16		2.74±0.45	1.56±0.11	5.5±0.54		3.94±0.86				[44]
I ^b ; m.a.	7.24±0.5	6.5±2.1		3.41±0.45	1.20±0.12	2.00±0.23		4.5±1.5				
O ^b ; m.a.	7.14±0.33	24.3±2.1		8.3±1.8	1.72±0.18	6.85±0.59		11.5±1.8				
m.a.	67.8 ¹											[40]
C ; c.s.	0.84			87.5	52.3			85	50		25	[35]
	0.35-1.23			62-80	59.3-81			30.3-79	170-2360		24-143	
O; m.a. ³	45.7				11.6±0.94			46.8±7.1				
O; m.a.; ²	54.9				13.2±1.4			88±14				[37]
I; m.a.; ³	56.2				9.22±0.34			34.9±7.3				
I; m.a.; ²	55.7				9.23±0.92			35±12				
c.s.	c.s.	70.5-439										
C	C	83.0										[36]
c.s.	c.s.	28.7-37.5	310-490				22.7-34.9	0.27-0.36			5.2-12.0	[39]
		55-530	20-250	57	20-22	14	74	0.074			9.4	[34]
p.w.c.	25-42				13-57			100-4200		10-135	150-20000	[46]
u.c.	56-52			17-32	68-142				160-450	7-27		[38]

*g/kg; **mg/kg; *** µg/kg;

C- control lettuce leaves; O-outer lettuce leaves; I-inner lettuce leaves; ^a-Evora; ^b-Coimbra; ¹-AAS, ²-INAA; ³-k0-NAA

m.a. - market available; c.s. – contaminated soil; p.w.c.- potential polluted water for irrigation; u.c –urban cultivation