

Figure S1. Scanning electron micrograph and energy dispersive X-ray of the soil.

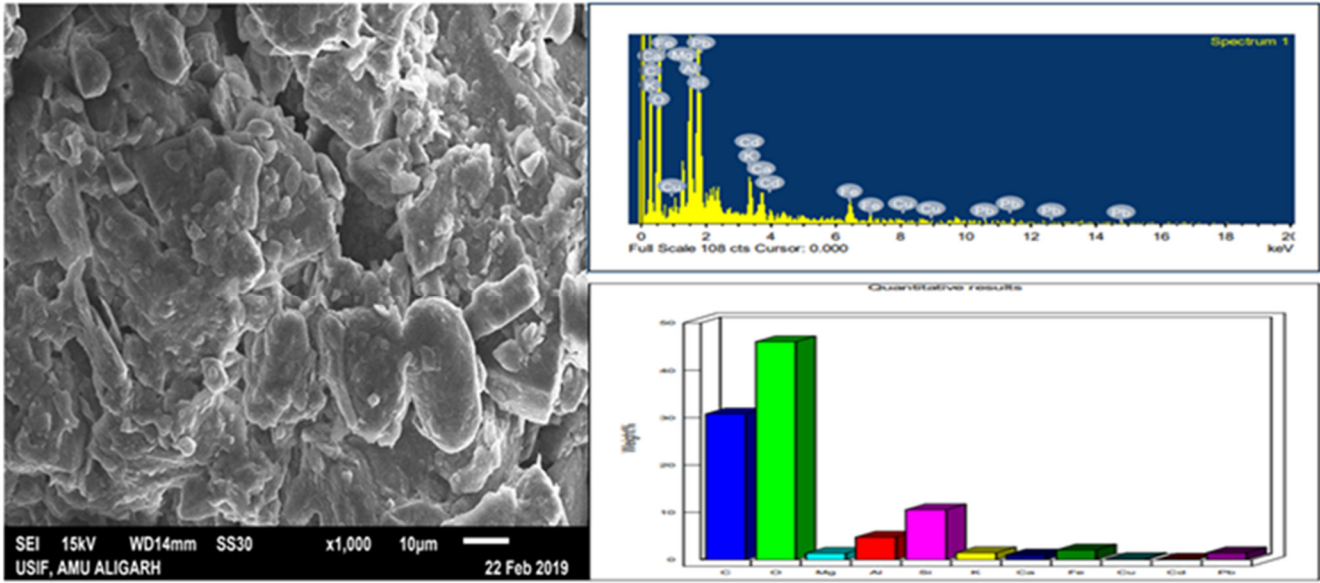


Table S1. Carrot repeat experiment results.

Treat- ment	SL	SFW	SDW	Leaves	LA	Stm. Area	RL	Cir- cum.	RFW	RDW	Chl. A	Chl. B	Carote n.	NRA	Carbohy- drate	Pro- tein	Scav- enging activity	O2 radicals
C	75.46	65.65	16.75	5.58	4.44	4.52	14.89	8.33	30.66	7.93	1.63	0.9	0.24	327.42	257.3333	1.02	20.8	3.3
U50	77.18	67.07	19.14	6.87	5.66	6.39	17.48	9.23	31.43	8.73	1.78	0.96	0.28	368.75	266.3333	1.1	21.97	3
U100	80.93	71.7	22.59	7.75	7.45	9.19	20.27	11.11	33.44	10.84	1.99	1.05	0.37	421.87	277.0667	1.16	23.59	2.6
U150	84.21	76.57	25.57	9.84	10.11	12.21	24.03	14.22	36.57	12.92	2.67	1.43	0.47	500.42	290.3333	1.23	22.01	2.2
U200	83.04	75.63	24.99	9.44	9.33	11.09	23.86	13.56	35.55	12.44	2.28	1.38	0.43	468.62	283.6667	1.22	18.43	2.1

SL= Shoot length (cm); SFW= Shoot fresh weight (g); SDW= Shoot dry weight (g); Leaves (plant⁻¹); LA= Leaf area (cm² leaf⁻¹); Stm. Area= Stomata area (µm²); Circum= Root circumference (cm); RFW= Root fresh weight (g); RDW= Root dry weight (g); Chl. A = Chlorophyll A (mg g⁻¹ FW); Chl. B= Chlorophyll B (mg g⁻¹ FW); Caroten.= Carotenoid content (mg g⁻¹ FW); NRA= Nitrate reductase activity(n mole NO₂ g⁻¹ FW); Carbohydrate (mg g⁻¹ DW); Protein (mg g⁻¹ FW); Scavenging activity (%); O2 radicals (µmole g⁻¹ FW).

Table S2. Beetroot repeat experiment results.

Treat- ment	SL	SFW	SDW	Leaves	LA	Stm. area	RL	Cir- cum.	RFW	RDW	Chl. A	Chl. B	Carote n.	NRA	Carbohy- drate	Pro- tein	Scav- enging activity	O2 radicals
C	18.84	24.32	6.87	8.49	9.68	22.22	10.88	13.44	70.17	19.39	0.48	0.25	0.21	301.33	253.33	0.94	49.26	2.9
U50	21.87	27.5	9.03	9.05	11.21	23.11	13.97	15.01	72.37	21.92	0.5	0.28	0.22	337.22	276.66	0.97	57.9	2.7
U100	24.92	31.94	12.59	11.18	14.39	25.34	17.89	19.77	75.08	25.53	0.53	0.29	0.25	389.6	285.78	1.02	58.11	2.4
U150	29.19	36.74	16.44	15.26	18.07	27.88	22.32	24.6	79.1	31.07	0.59	0.32	0.28	448.1	305.18	1.12	57.11	2.1
U200	29.07	35.91	16.37	14.4	17.33	26.88	21.98	24.49	78.92	30.1	0.58	0.3	0.27	424.11	297.33	1.09	43.17	1.9

SL= Shoot length (cm); SFW= Shoot fresh weight (g); SDW= Shoot dry weight (g); Leaves (plant⁻¹); LA= Leaf area (cm² leaf⁻¹); Stm. Area= Stomata area (µm²); Circum= Root circumference (cm); RFW= Root fresh weight (g); RDW= Root dry weight (g); Chl. A = Chlorophyll A (mg g⁻¹ FW); Chl. B= Chlorophyll B (mg g⁻¹ FW); Caroten.= Carotenoid content (mg g⁻¹ FW); NRA= Nitrate reductase activity(n mole NO₂ g⁻¹ FW); Carbohydrate (mg g⁻¹ DW); Protein (mg g⁻¹ FW); Scavenging activity (%); O2 radicals (µmole g⁻¹ FW).