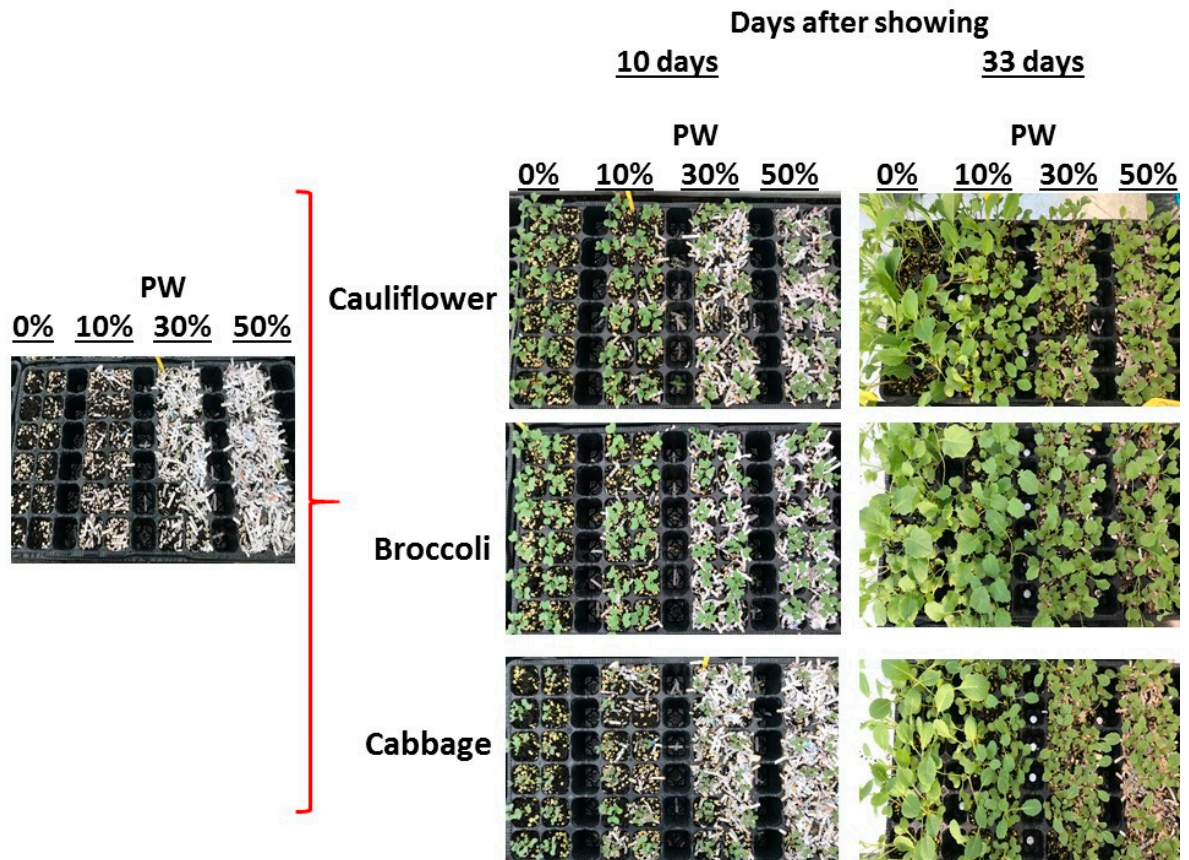**Supplementary Material**

Figure S1. Effect of substrate media (peat-P, paper waste-PW) on plant growth of cauliflower, broccoli and cabbage.

Table S1. Intercorrelations of Media Properties.

Parameter.		PW	Total porosity	Air filled porosity	Bulk density	Container capacity	EC	pH	Organic Matter	Organic C	C/N	N	K	P	Ca	Mg	Na	Fe	Cu	Zn	Mn
PW	r	1.000	−0.972**	−0.972**	0.777**	−0.842**	0.885**	0.950**	−0.928**	−0.928**	0.864**	−0.972**	0.518	−0.151	0.972**	0.389	0.907**	0.907**	0.691*	−0.238	−0.391
	p		0.000	0.000	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.084	0.639	0.000	0.212	0.000	0.000	0.013	0.457	0.208
Total porosity	r		1.000	10.000**	−0.699*	0.902**	−0.853**	−0.874**	0.923**	0.923**	−0.804**	0.965**	−0.399	0.119	−0.930**	−0.378	−0.881**	−0.923**	−0.657*	0.259	0.359
	p			0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.199	0.713	0.000	0.226	0.000	0.000	0.020	0.417	0.252
Air filled porosity	r			1.000	−0.699*	0.902**	−0.853**	−0.874**	0.923**	0.923**	−0.804**	0.965**	−0.399	0.119	−0.930**	−0.378	−0.881**	−0.923**	−0.657*	0.259	0.359
	p				0.011	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.199	0.713	0.000	0.226	0.000	0.000	0.020	0.417	0.252
Bulk density	r				1.000	−0.545	0.594*	0.825**	−0.650	−0.650*	0.601*	−0.734**	0.671*	0.224	0.769**	−0.189	0.629*	0.776**	0.392	0.343	−0.401
	p					0.067	0.042	0.000	0.022	0.022	0.039	0.007	0.017	0.484	0.003	0.557	0.028	0.003	0.208	0.276	0.196
Container capacity	r					1.000	−0.678*	−0.720**	0.755**	0.755**	−0.657*	0.853**	−0.196	0.035	−0.804**	−0.238	−0.692*	−0.811**	−0.538	0.392	0.261
	p						0.015	0.008	0.005	0.005	0.020	0.000	0.542	0.914	0.002	0.457	0.013	0.001	0.071	0.208	0.413
Ec	r						1.000	0.853**	−0.797**	−0.797**	0.923**	−0.881**	0.503	−0.119	0.916**	0.517	0.769**	0.734**	0.573	−0.259	−0.317
	p							0.000	0.002	0.002	0.000	0.000	0.095	0.713	0.000	0.085	0.003	0.007	0.051	0.417	0.316
pH	r							1.000	−0.860**	−0.860**	0.853**	−0.916**	0.671*	0.287	0.965**		0.811**	0.776**	0.601*	−0.140	−0.423
	p								0.000	0.000	0.000	0.000	0.017	0.795	0.000	0.366	0.001	0.003	0.039	0.665	0.171
Organic matter	r								1.000	10.000**	−0.720**	0.909**	−0.538	0.350	−0.867**	−0.524	−0.972**	−0.825**	−0.860**	0.210	0.246
	p									0.008	0.000	0.071	0.265	0.000	0.080	0.000	0.001	0.000	0.513	0.440	
Organic C	r									1.000	−0.720**	0.909**	−0.538	0.350	−0.867**	−0.524	−0.972**	−0.825**	−0.860**	0.210	0.246
	p										0.008	0.000	0.071	0.265	0.000	0.080	0.000	0.001	0.000	0.513	0.440
C/N	r										1.000	−0.881**	0.531	−0.252	0.860**	0.462	0.713**	0.706*	0.483	−0.294	−0.204
	p											0.000	0.075	0.430	0.000	0.131	0.009	0.010	0.112	0.354	0.524
N	r											1.000	−0.545	0.182	−0.930**	−0.364	−0.860**	−0.874**	−0.643*	0.210	0.232
	p												0.067	0.572	0.000	0.245	0.000	0.000	0.024	0.513	0.467
K	r												1.000	−0.140	0.545	0.035	0.483	0.280	0.476	0.406	−0.014
	p													0.665	0.067	0.914	0.112	0.379	0.118	0.191	0.965
P	r													1.000	−0.007	−0.727**	−0.427	−0.042	−0.587*	0.413	−0.486
	p														0.983	0.007	0.167	0.897	0.045	0.183	0.109
Ca	r														1.000	0.350	0.825**	0.825**	0.608*	−0.231	−0.507
	p															0.265	0.001	0.001	0.036	0.471	0.092
Mg	r															1.000	0.587*	0.217	0.650*	−0.692*	−0.014
	p																0.045	0.499	0.022	0.013	0.965
Na	r																1.000	0.839**	0.895**	−0.238	−0.261
	p																	0.001	0.000	0.457	0.413
Fe	r																	1.000	0.573	−0.112	−0.345
	p																		0.051	0.729	0.272
Cu	r																		1.000	−0.238	−0.035
	p																			0.457	0.913
Zn	r																			1.000	0.148
	p																				0.646
Mn	r																				1.000
	p																				

**. Correlation is significant at the 0.01 level (2-tailed). *. Correlation is significant at the 0.05 level (2-tailed).

Table S2. The Correlations between the Growing Media Properties and Plant Growth and Physiology—Cauliflower.

Parameter		Leaf number	Height	Fv/Fm	Fresh biomass	Dry weight	Dry matter	SPAD	Stomatal conductance	Chl-a	Chl-b	Tot Chl
PW	r	−0.876**	−0.802**	−0.842**	−0.842**	−0.842**	−0.302	−0.777**	−0.411	0.453	0.453	0.453
	p	0.000	0.002	0.001	0.001	0.001	0.340	0.003	0.184	0.139	0.139	0.139
Total porosity	r	0.873**	0.818**	0.874**	0.902**	0.881**	0.322	0.727**	0.375	−0.455	−0.476	−0.476
	p	0.000	0.001	0.000	0.000	0.000	0.308	0.007	0.230	0.138	0.118	0.118
Air filled porosity	r	0.873**	0.818**	0.874**	0.902**	0.881**	0.322	0.727**	0.375	−0.455	−0.476	−0.476
	p	0.000	0.001	0.000	0.000	0.000	0.308	0.007	0.230	0.138	0.118	0.118
Bulk density	r	−0.633*	−0.804**	−0.490	−0.587*	−0.734**	−0.371	−0.804**	−0.035	0.070	0.049	0.049
	p	0.027	0.002	0.106	0.045	0.007	0.236	0.002	0.914	0.829	0.880	0.880
Container capacity	r	0.764**	0.744**	0.804**	0.839**	0.832**	0.490	0.601*	0.438	−0.671*	−0.692*	−0.692*
	p	0.004	0.006	0.002	0.001	0.001	0.106	0.039	0.155	0.017	0.013	0.013
Ec	r	−0.830**	−0.611*	−0.839**	−0.755**	−0.769**	−0.147	−0.552	−0.336	0.315	0.336	0.336
	p	0.001	0.035	0.001	0.005	0.003	0.649	0.063	0.285	0.319	0.286	0.286
pH	r	−0.830**	−0.726**	−0.762**	−0.699*	−0.769**	−0.336	−0.748**	−0.350	0.357	0.322	0.322
	p	0.001	0.007	0.004	0.011	0.003	0.286	0.005	0.264	0.255	0.308	0.308
Organic matter	r	0.873**	0.811**	0.832**	0.804**	0.776**	0.280	0.615*	0.508	−0.406	−0.427	−0.427
	p	0.000	0.001	0.001	0.002	0.003	0.379	0.033	0.092	0.191	0.167	0.167
Organic C	r	0.873**	0.811**	0.832**	0.804**	0.776**	0.280	0.615*	0.508	−0.406	−0.427	−0.427
	p	0.000	0.001	0.001	0.002	0.003	0.379	0.033	0.092	0.191	0.167	0.167
C/N	r	−0.786**	−0.554	−0.797**	−0.594*	−0.643*	−0.042	−0.622*	−0.256	0.266	0.266	0.266
	p	0.002	0.061	0.002	0.042	0.024	0.897	0.031	0.422	0.404	0.404	0.404
N	r	0.939**	0.796**	0.881**	0.776**	0.818**	0.287	0.692*	0.417	−0.364	−0.385	−0.385
	p	0.000	0.002	0.000	0.003	0.001	0.366	0.013	0.178	0.245	0.217	0.217
K	r	−0.633*	−0.537	−0.455	−0.147	−0.378	−0.063	−0.378	−0.116	−0.203	−0.238	−0.238
	p	0.027	0.072	0.138	0.649	0.226	0.846	0.226	0.721	0.527	0.457	0.457
P	r	0.197	0.060	0.245	−0.063	−0.147	−0.266	−0.098	0.399	−0.154	−0.189	−0.189
	p	0.540	0.854	0.443	0.846	0.649	0.404	0.762	0.198	0.633	0.557	0.557
Ca	r	−0.852**	−0.726**	−0.818**	−0.825**	−0.839**	−0.315	−0.755**	−0.382	0.455	0.434	0.434
	p	0.000	0.007	0.001	0.001	0.001	0.319	0.005	0.221	0.138	0.159	0.159
Mg	r	−0.393	−0.039	−0.490	−0.329	−0.105	0.280	−0.035	−0.581*	0.406	0.427	0.427
	p	0.206	0.905	0.106	0.297	0.746	0.379	0.914	0.047	0.191	0.167	0.167
Na	r	−0.808**	−0.772**	−0.769**	−0.783**	−0.706*	−0.161	−0.657*	−0.511	0.420	0.441	0.441
	p	0.001	0.003	0.003	0.003	0.010	0.618	0.020	0.089	0.175	0.152	0.152
Fe	r	−0.721**	−0.846**	−0.699*	−0.881**	−0.853**	−0.336	−0.790**	−0.245	0.378	0.420	0.420
	p	0.008	0.001	0.011	0.000	0.000	0.286	0.002	0.442	0.226	0.175	0.175
Cu	r	−0.677*	−0.663*	−0.650*	−0.601*	−0.531	−0.168	−0.364	−0.634*	0.476	0.503	0.503
	p	0.016	0.019	0.022	0.039	0.075	0.602	0.245	0.027	0.118	0.095	0.095
Zn	r	0.153	−0.193	0.301	0.245	0.000	−0.021	0.028	0.588*	−0.748**	−0.727**	−0.727**
	p	0.635	0.548	0.342	0.443	1.000	0.948	0.931	0.044	0.005	0.007	0.007
Mn	r	0.154	0.085	0.176	0.479	0.303	−0.014	0.613*	0.028	−0.296	−0.176	−0.176

| | p | 0.633 | 0.793 | 0.584 | 0.115 | 0.339 | 0.965 | 0.034 | 0.931 | 0.351 | 0.584 | 0.584 |

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S3. The Correlations between the Growing Media Properties and Plant Growth and Physiology—Broccoli.

Parameter		Leaf number	Height	Fv/Fm	Fresh biomass	Dry weight	Dry matter	SPAD	Stomatal conductance	Chl-a	Chl- b	Tot Chl
PW	r	−0.837**	−0.802**	−0.725**	−0.756**	−0.756**	−0.302	−0.907**	−0.767**	−0.281	−0.173	−0.281
	p	0.001	0.002	0.008	0.004	0.004	0.340	0.000	0.006	0.377	0.591	0.377
Total porosity	r	0.857**	0.719**	0.690*	0.762**	0.783**	0.357	0.874**	0.635*	0.301	0.196	0.301
	p	0.000	0.008	0.013	0.004	0.003	0.255	0.000	0.036	0.342	0.542	0.342
Air filled porosity	r	0.857**	0.719**	0.690*	0.762**	0.783**	0.357	0.874**	0.635*	0.301	0.196	0.301
	p	0.000	0.008	0.013	0.004	0.003	0.255	0.000	0.036	0.342	0.542	0.342
Bulk density	r	−0.578*	−0.965**	−0.424	−0.895**	−0.874**	−0.021	−0.783**	−0.580	−0.643*	−0.580*	−0.643*
	p	0.049	0.000	0.170	0.000	0.000	0.948	0.003	0.061	0.024	0.048	0.024
Container capacity	r	0.857**	0.593*	0.648*	0.692*	0.713**	0.287	0.783**	0.612*	0.119	0.014	0.119
	p	0.000	0.042	0.023	0.013	0.009	0.366	0.003	0.045	0.713	0.966	0.713
Ec	r	−0.662*	−0.674*	−0.536	−0.601*	−0.566	−0.280	−0.685*	−0.735**	−0.140	−0.028	−0.140
	p	0.019	0.016	0.073	0.039	0.055	0.379	0.014	0.010	0.665	0.931	0.665
pH	r	−0.833**	−0.835**	−0.599*	−0.720**	−0.699*	−0.168	−0.874**	−0.826**	−0.224	−0.133	−0.224
	p	0.001	0.001	0.040	0.008	0.011	0.602	0.000	0.002	0.484	0.681	0.484
Organic matter	r	0.813**	0.632*	0.655*	0.580*	0.615*	0.322	0.762**	0.543	0.287	0.175	0.287
	p	0.001	0.028	0.021	0.048	0.033	0.308	0.004	0.084	0.366	0.587	0.366
Organic C	r	0.813**	0.632*	0.655*	0.580*	0.615*	0.322	0.762**	0.543	0.287	0.175	0.287
	p	0.001	0.028	0.021	0.048	0.033	0.308	0.004	0.084	0.366	0.587	0.366
C/N	r	−0.618*	−0.663*	−0.581*	−0.608*	−0.552	−0.217	−0.741**	−0.790**	−0.133	−0.049	−0.133
	p	0.032	0.019	0.047	0.036	0.063	0.499	0.006	0.004	0.681	0.880	0.681
N	r	0.813**	0.730**	0.666*	0.755**	0.734**	0.168	0.839**	0.690*	0.308	0.203	0.308
	p	0.001	0.007	0.018	0.005	0.007	0.602	0.001	0.019	0.331	0.527	0.331
K	r	−0.335	−0.618*	0.018	−0.448	−0.357	0.308	−0.357	−0.393	−0.357	−0.315	−0.357
	p	0.287	0.032	0.957	0.145	0.255	0.331	0.255	0.232	0.255	0.319	0.255
P	r	0.076	−0.263	0.326	−0.343	−0.308	0.217	0.000	−0.005	−0.168	−0.196	−0.168
	p	0.815	0.409	0.301	0.276	0.331	0.499	1.000	0.989	0.602	0.542	0.602
Ca	r	−0.833**	−0.825**	−0.627*	−0.741**	−0.720**	−0.259	−0.881**	−0.836**	−0.175	−0.070	−0.175
	p	0.001	0.001	0.029	0.006	0.008	0.417	0.000	0.001	0.587	0.829	0.587
Mg	r	−0.267	0.116	−0.480	0.245	0.224	−0.427	−0.189	−0.306	0.392	0.469	0.392
	p	0.401	0.720	0.114	0.443	0.484	0.167	0.557	0.360	0.208	0.124	0.208
Na	r	−0.706*	−0.628*	−0.732**	−0.538	−0.573	−0.392	−0.762**	−0.557	−0.301	−0.189	−0.301
	p	0.010	0.029	0.007	0.071	0.051	0.208	0.004	0.075	0.342	0.557	0.342
Fe	r	−0.710**	−0.779**	−0.767**	−0.832**	−0.874**	−0.406	−0.867**	−0.553	−0.524	−0.427	−0.524
	p	0.010	0.003	0.004	0.001	0.000	0.191	0.000	0.078	0.080	0.167	0.080
Cu	r	−0.554	−0.400	−0.543	−0.238	−0.280	−0.315	−0.469	−0.393	−0.133	−0.014	−0.133

	p	0.062	0.198	0.068	0.457	0.379	0.319	0.124	0.232	0.681	0.966	0.681
Zn	r	0.351	−0.235	0.567	−0.259	−0.238	0.364	0.245	0.379	−0.727**	−0.776**	−0.727**
	p	0.264	0.462	0.054	0.417	0.457	0.245	0.443	0.250	0.007	0.003	0.007
Mn	r	0.353	0.502	0.286	0.366	0.373	0.303	0.592*	0.429	−0.077	−0.092	−0.077
	p	0.260	0.096	0.368	0.242	0.232	0.339	0.043	0.188	0.811	0.777	0.811

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S4. The Correlations between the Growing Media Properties and Plant Growth and Physiology—Cabbage.

Parameter		Leaf number	Height	Fv/Fm	Fresh biomass	Dry weight	Dry matter	SPAD	Stomatal conductance	Chl-a	Chl-b	Tot Chl
PW	r	−0.949**	−0.606*	−0.713**	−0.907**	−0.907**	−0.561	−0.488	0.281	−0.648*	−0.648*	−0.648*
	p	0.000	0.037	0.009	0.000	0.000	0.058	0.108	0.377	0.023	0.023	0.023
Total porosity	r	0.911**	0.494	0.671*	0.874**	0.902**	0.650*	0.540	−0.189	0.594*	0.594*	0.594*
	p	0.000	0.103	0.017	0.000	0.000	0.022	0.070	0.557	0.042	0.042	0.042
Air filled porosity	r	0.911**	0.494	0.671*	0.874**	0.902**	0.650*	0.540	−0.189	0.594*	0.594*	0.594*
	p	0.000	0.103	0.017	0.000	0.000	0.022	0.070	0.557	0.042	0.042	0.042
Bulk density	r	−0.867**	−0.546	−0.441	−0.699*	−0.671*	−0.399	−0.460	0.734**	−0.350	−0.350	−0.350
	p	0.000	0.066	0.152	0.011	0.017	0.199	0.133	0.007	0.265	0.265	0.265
Container capacity	r	0.791**	0.424	0.455	0.832**	0.874**	0.629*	0.604*	0.084	0.287	0.287	0.287
	p	0.002	0.170	0.138	0.001	0.000	0.028	0.038	0.795	0.366	0.366	0.366
Ec	r	−0.805**	−0.574	−0.804**	−0.734**	−0.755**	−0.587*	−0.344	0.126	−0.664*	−0.664*	−0.664*
	p	0.002	0.051	0.002	0.007	0.005	0.045	0.274	0.697	0.018	0.018	0.018
pH	r	−0.911**	−0.687*	−0.797**	−0.853**	−0.860**	−0.531	−0.456	0.357	−0.643*	−0.643*	−0.643*
	p	0.000	0.014	0.002	0.000	0.000	0.075	0.136	0.255	0.024	0.024	0.024
Organic matter	r	0.842**	0.581*	0.741**	0.881**	0.888**	0.476	0.470	−0.210	0.713**	0.713**	0.713**
	p	0.001	0.047	0.006	0.000	0.000	0.118	0.123	0.513	0.009	0.009	0.009
Organic C	r	0.842**	0.581*	0.741**	0.881**	0.888**	0.476	0.470	−0.210	0.713**	0.713**	0.713**
	p	0.001	0.047	0.006	0.000	0.000	0.118	0.123	0.513	0.009	0.009	0.009
C/N	r	−0.809**	−0.557	−0.748**	−0.685*	−0.671*	−0.385	−0.312	0.175	−0.615*	−0.615*	−0.615*
	p	0.001	0.060	0.005	0.014	0.017	0.217	0.323	0.587	0.033	0.033	0.033
N	r	0.900**	0.630*	0.748**	0.832**	0.853**	0.524	0.540	−0.224	0.580*	0.580*	0.580*
	p	0.000	0.028	0.005	0.001	0.000	0.080	0.070	0.484	0.048	0.048	0.048
K	r	−0.556	−0.753**	−0.601*	−0.503	−0.490	−0.112	−0.411	0.469	−0.448	−0.448	−0.448
	p	0.060	0.005	0.039	0.095	0.106	0.729	0.185	0.124	0.145	0.145	0.145
P	r	0.033	0.105	0.259	0.175	0.091	−0.476	−0.123	0.245	0.385	0.385	0.385
	p	0.919	0.745	0.417	0.587	0.779	0.118	0.704	0.443	0.217	0.217	0.217
Ca	r	−0.922**	−0.648*	−0.748**	−0.888**	−0.909**	−0.671*	−0.491	0.245	−0.650*	−0.650*	−0.650*
	p	0.000	0.023	0.005	0.000	0.000	0.017	0.105	0.443	0.022	0.022	0.022
Mg	r	−0.198	−0.238	−0.503	−0.364	−0.343	−0.056	0.102	−0.385	−0.699*	−0.699*	−0.699*
	p	0.538	0.456	0.095	0.245	0.276	0.863	0.753	0.217	0.011	0.011	0.011
Na	r	−0.835**	−0.543	−0.636*	−0.874**	−0.839**	−0.357	−0.375	0.259	−0.748**	−0.748**	−0.748**

	p	0.001	0.068	0.026	0.000	0.001	0.255	0.229	0.417	0.005	0.005	0.005
Fe	r	−0.900**	−0.336	−0.455	−0.790**	−0.769**	−0.497	−0.425	0.406	−0.455	−0.455	−0.455
	p	0.000	0.285	0.138	0.002	0.003	0.101	0.169	0.191	0.138	0.138	0.138
Cu	r	−0.615*	−0.550	−0.497	−0.804**	−0.755**	−0.154	−0.319	0.028	−0.622*	−0.622*	−0.622*
	p	0.033	0.064	0.101	0.002	0.005	0.633	0.312	0.931	0.031	0.031	0.031
Zn	r	0.048	0.049	0.217	0.238	0.252	0.133	−0.091	0.664*	0.280	0.280	0.280
	p	0.883	0.880	0.499	0.457	0.430	0.681	0.778	0.018	0.379	0.379	0.379
Mn	r	0.428	0.194	0.155	0.401	0.430	0.648*	0.085	−0.303	0.486	0.486	0.486
	p	0.166	0.546	0.631	0.196	0.163	0.023	0.793	0.339	0.109	0.109	0.109

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S5. The Correlations between the Growing Media properties and Plant Minerals—Cauliflower.

Parameter		Leaf N	Leaf K	Leaf P	Leaf Mg	Leaf Ca	Leaf Na	Leaf Fe	Leaf Cu	Leaf Zn
PW	r	0.389	0.475	0.777**	0.238	0.972**	−0.907**	−0.799**	0.842**	0.130
	p	0.212	0.119	0.003	0.457	0.000	0.000	0.002	0.001	0.688
Total porosity	r	−0.392	−0.434	−0.769**	−0.196	−0.944**	0.902**	0.741**	−0.818**	−0.147
	p	0.208	0.159	0.003	0.542	0.000	0.000	0.006	0.001	0.649
Air filled porosity	r	−0.392	−0.434	−0.769**	−0.196	−0.944**	0.902**	0.741**	−0.818**	−0.147
	p	0.208	0.159	0.003	0.542	0.000	0.000	0.006	0.001	0.649
Bulk density	r	−0.014	0.154	0.552	0.497	0.755**	−0.608*	−0.455	0.881**	−0.336
	p	0.966	0.633	0.063	0.101	0.005	0.036	0.138	0.000	0.286
Container capacity	r	−0.657*	−0.629*	−0.909**	0.168	−0.818**	0.734**	0.483	−0.692*	0.063
	p	0.020	0.028	0.000	0.602	0.001	0.007	0.112	0.013	0.846
Ec	r	0.350	0.322	0.643*	0.259	0.776**	−0.741**	−0.860**	0.741**	0.455
	p	0.265	0.308	0.024	0.417	0.003	0.006	0.000	0.006	0.138
pH	r	0.322	0.413	0.720**	0.322	0.923**	−0.783**	−0.811**	0.825**	0.042
	p	0.308	0.183	0.008	0.308	0.000	0.003	0.001	0.001	0.897
Organic matter	r	−0.287	−0.476	−0.622*	−0.259	−0.923**	0.916**	0.839**	−0.748**	−0.238
	p	0.366	0.118	0.031	0.417	0.000	0.000	0.001	0.005	0.457
Organic C	r	−0.287	−0.476	−0.622*	−0.259	−0.923**	0.916**	0.839**	−0.748**	−0.238
	p	0.366	0.118	0.031	0.417	0.000	0.000	0.001	0.005	0.457
C/N	r	0.413	0.301	0.685*	0.294	0.804**	−0.741**	−0.825**	0.769**	0.350
	p	0.183	0.342	0.014	0.354	0.002	0.006	0.001	0.003	0.265
N	r	−0.406	−0.413	−0.783**	−0.266	−0.944**	0.881**	0.783**	−0.881**	−0.147
	p	0.191	0.183	0.003	0.404	0.000	0.000	0.003	0.000	0.649
K	r	−0.140	0.028	0.217	0.615*	0.503	−0.357	−0.615*	0.650*	−0.056
	p	0.665	0.931	0.499	0.033	0.095	0.255	0.033	0.022	0.863
P	r	−0.252	−0.322	−0.042	0.028	−0.231	0.378	0.441	−0.007	−0.497
	p	0.430	0.308	0.897	0.931	0.471	0.226	0.152	0.983	0.101
Ca	r	0.378	0.448	0.755**	0.224	0.916**	−0.811**	−0.804**	0.790**	0.133
	p	0.226	0.145	0.005	0.484	0.000	0.001	0.002	0.002	0.681
Mg	r	0.350	0.406	0.161	−0.105	0.378	−0.545	−0.713**	0.000	0.839**
	p	0.265	0.191	0.618	0.746	0.226	0.067	0.009	1.000	0.001
Na	r	0.259	0.490	0.573	0.252	0.909**	−0.951**	−0.825**	0.699*	0.287
	p	0.417	0.106	0.051	0.430	0.000	0.000	0.001	0.011	0.366
Fe	r	0.280	0.364	0.720**	0.224	0.881**	−0.881**	−0.552	0.839**	0.021
	p	0.379	0.245	0.008	0.484	0.000	0.000	0.063	0.001	0.948
Cu	r	0.294	0.622*	0.441	0.049	0.692*	−0.755**	−0.713**	0.476	0.301
	p	0.354	0.031	0.152	0.880	0.013	0.005	0.009	0.118	0.342
Zn	r	−0.748**	−0.615*	−0.413	0.615*	−0.259	0.322	0.301	0.210	−0.434
	p	0.005	0.033	0.183	0.033	0.417	0.308	0.342	0.513	0.159
Mn	r	0.092	−0.056	−0.141	−0.134	−0.394	0.310	0.275	−0.077	0.092
	p	0.777	0.862	0.662	0.678	0.205	0.327	0.388	0.811	0.777

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S6. The Correlations between the Growing Media properties and Plant Minerals—Broccoli.

Parameter		Leaf N	Leaf K	Leaf P	Leaf Mg	Leaf Ca	Leaf Na	Leaf Fe	Leaf Cu	Leaf Zn
PW	r	0.389	0.799**	0.928**	−0.777**	0.281	−0.777**	−0.972**	0.669*	0.000
	p	0.212	0.002	0.000	0.003	0.377	0.003	0.000	0.017	1.000
Total porosity	r	−0.378	−0.769**	−0.937**	0.755**	−0.238	0.755**	0.944**	−0.580*	0.014
	p	0.226	0.003	0.000	0.005	0.457	0.005	0.000	0.048	0.966
Air filled porosity	r	−0.378	−0.769**	−0.937**	0.755**	−0.238	0.755**	0.944**	−0.580*	0.014
	p	0.226	0.003	0.000	0.005	0.457	0.005	0.000	0.048	0.966
Bulk density	r	0.755**	0.594*	0.678*	−0.566	0.455	−0.944**	−0.755**	0.552	−0.364
	p	0.005	0.042	0.015	0.055	0.138	0.000	0.005	0.063	0.245
Container capacity	r	−0.126	−0.846**	−0.902**	0.867**	0.112	0.615*	0.832**	−0.315	0.280
	p	0.697	0.001	0.000	0.000	0.729	0.033	0.001	0.319	0.379
Ec	r	0.308	0.587*	0.853**	−0.559	0.378	−0.559	−0.888**	0.734**	0.196
	p	0.331	0.045	0.000	0.059	0.226	0.059	0.000	0.007	0.542
pH	r	0.420	0.734**	0.846**	−0.706*	0.385	−0.748**	−0.951**	0.790**	−0.028
	p	0.175	0.007	0.001	0.010	0.217	0.005	0.000	0.002	0.931
Organic matter	r	−0.343	−0.783**	−0.776**	0.734**	−0.280	0.734**	0.839**	−0.636*	−0.175
	p	0.276	0.003	0.003	0.007	0.379	0.007	0.001	0.026	0.587
Organic C	r	−0.343	−0.783**	−0.776**	0.734**	−0.280	0.734**	0.839**	−0.636*	−0.175
	p	0.276	0.003	0.003	0.007	0.379	0.007	0.001	0.026	0.587
C/N	r	0.315	0.552	0.888**	−0.545	0.406	−0.503	−0.902**	0.727**	0.133
	p	0.319	0.063	0.000	0.067	0.191	0.095	0.000	0.007	0.681
N	r	−0.420	−0.762**	−0.944**	0.741**	−0.329	0.741**	0.958**	−0.643*	0.028
	p	0.175	0.004	0.000	0.006	0.297	0.006	0.000	0.024	0.931
K	r	0.573	0.357	0.336	−0.287	0.657*	−0.580*	−0.490	0.741**	0.014
	p	0.051	0.255	0.286	0.366	0.020	0.048	0.106	0.006	0.966
P	r	0.266	−0.210	−0.070	0.182	0.028	−0.154	0.049	−0.126	−0.545
	p	0.404	0.513	0.829	0.572	0.931	0.633	0.880	0.697	0.067
Ca	r	0.350	0.748**	0.895**	−0.727**	0.301	−0.727**	−0.972**	0.741**	0.000

	p	0.265	0.005	0.000	0.007	0.342	0.007	0.000	0.006	1.000
Mg	r	−0.378	0.280	0.287	−0.245	−0.014	0.133	−0.322	0.378	0.783**
	p	0.226	0.379	0.366	0.443	0.966	0.681	0.308	0.226	0.003
Na	r	0.315	,762**	,741**	−0.713**	0.245	−0.713**	−0.797**	,587*	0.245
	p	0.319	0.004	0.006	0.009	0.443	0.009	0.002	0.045	0.443
Fe	r	0.503	0.727**	0.888**	−0.720**	0.189	−0.846**	−0.853**	0.385	−0.154
	p	0.095	0.007	0.000	0.008	0.557	0.001	0.000	0.217	0.633
Cu	r	0.070	0.755**	0.476	−0.692*	0.042	−0.524	−0.524	0.434	0.294
	p	0.829	0.005	0.118	0.013	0.897	0.080	0.080	0.159	0.354
Zn	r	0.734**	−0.315	−0.315	0.357	0.503	−0.357	0.273	−0.035	−0.343
	p	0.007	0.319	0.319	0.255	0.095	0.255	0.391	0.914	0.276
Mn	r	−0.120	−0.141	−0.275	0.141	−0.148	0.310	0.451	−0.444	−0.092
	p	0.711	0.662	0.388	0.662	0.646	0.327	0.141	0.149	0.777

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S7. The Correlations between the Growing Media properties and Plant Minerals—Cabbage.

Parameter		Leaf N	Leaf K	Leaf P	Leaf Mg	Leaf Ca	Leaf Na	Leaf Fe	Leaf Cu	Leaf Zn
PW	r	0.734**	0.777**	0.130	0.777**	0.756**	0.367	−0.734**	0.972**	0.777**
	p	0.007	0.003	0.688	0.003	0.004	0.241	0.007	0.000	0.003
Total porosity	r	−0.741**	−0.741**	−0.098	−0.769**	−0.713**	−0.350	0.706*	−0.944*	−0.783*
	p	0.006	0.006	0.762	0.003	0.009	0.265	0.010	0.000	0.003
Air filled porosity	r	−0.741**	−0.741**	−0.098	−0.769**	−0.713**	−0.350	0.706*	−0.944*	−0.783*
	p	0.006	0.006	0.762	0.003	0.009	0.265	0.010	0.000	0.003
Bulk density	r	0.580*	0.580*	0.070	0.930**	0.608*	0.741**	−0.783**	0.755**	0.350
	p	0.048	0.048	0.829	0.000	0.036	0.006	0.003	0.005	0.265
Container capacity	r	−0.881**	−0.853**	−0.336	−0.643*	−0.839**	−0.126	0.713**	−0.818*	−0.545
	p	0.000	0.000	0.286	0.024	0.001	0.697	0.009	0.001	0.067
Ec	r	0.510	0.629*	0.098	0.531	0.552	0.252	−0.524	0.874**	0.825**
	p	0.090	0.028	0.762	0.075	0.063	0.430	0.080	0.000	0.001
pH	r	0.615*	0.748**	0.098	0.734**	0.783**	0.420	−0.755**	0.923**	0.657*
	p	0.033	0.005	0.762	0.007	0.003	0.175	0.005	0.000	0.020
Organic matter	r	−0.601*	−0.706*	−0.133	−0.706*	−0.629*	−0.287	0.622*	−0.909**	−0.776**
	p	0.039	0.010	0.681	0.010	0.028	0.366	0.031	0.000	0.003
Organic C	r	−0.601*	−0.706*	−0.133	−0.706*	−0.629*	−0.287	0.622*	−0.909**	−0.776**
	p	0.039	0.010	0.681	0.010	0.028	0.366	0.031	0.000	0.003
C/N	r	0.538	0.629*	0.035	0.545	0.643*	0.154	−0.413	0.902**	0.790**
	p	0.071	0.028	0.914	0.067	0.024	0.633	0.183	0.000	0.002
N	r	−0.706*	−0.769**	−0.126	−0.769**	−0.762**	−0.294	0.650*	−0.986**	−0.755**
	p	0.010	0.003	0.697	0.003	0.004	0.354	0.022	0.000	0.005
K	r	0.077	0.399	0.014	0.524	0.427	0.413	−0.385	0.573	0.210
	p	0.812	0.199	0.966	0.080	0.167	0.183	0.217	0.051	0.513
P	r	−0.021	−0.154	−0.098	0.112	−0.077	0.566	−0.392	−0.259	−0.406
	p	0.948	0.633	0.762	0.729	0.812	0.055	0.208	0.417	0.191
Ca	r	0.664*	0.755**	0.112	0.699*	0.748**	0.413	−0.790**	0.916**	0.727**
	p	0.018	0.005	0.729	0.011	0.005	0.183	0.002	0.000	0.007
Mg	r	0.084	0.217	0.014	−0.161	0.084	−0.413	0.112	0.378	0.755**
	p	0.795	0.499	0.966	0.618	0.795	0.183	0.729	0.226	0.005
Na	r	0.601*	0.657*	0.119	0.685*	0.552	0.266	−0.559	0.881**	0.818**
	p	0.039	0.020	0.713	0.014	0.063	0.404	0.059	0.000	0.001
Fe	r	0.804**	0.664*	0.126	0.874**	0.601*	0.455	−0.678	0.881**	0.713**
	p	0.002	0.018	0.697	0.000	0.039	0.138	0.015	0.000	0.009
Cu	r	0.469	0.636*	0.336	0.441	0.455	0.014	−0.399	0.678*	0.601*
	p	0.124	0.026	0.286	0.152	0.138	0.966	0.199	0.015	0.039
Zn	r	−0.329	−0.315	−0.161	0.315	−0.322	0.615*	0.007	−0.189	−0.455
	p	0.297	0.319	0.618	0.319	0.308	0.033	0.983	0.557	0.138
Mn	r	−0.169	−0.070	0.359	−0.254	−0.176	−0.613*	0.648*	−0.183	−0.317

	p	0.599	0.828	0.252	0.427	0.584	0.034	0.023	0.569	0.316

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S8. The Correlations between the Growing Media properties and Plant Antioxidants—Cauliflower.

Parameter		Phenols	DPPH	FRAP	MDA	H$_2$O$_2$	SOD	CAT	POD
PW	r	−0.475	0.842**	−0.626*	−0.777**	−0.389	−0.885**	−0.194	−0.777**
	p	0.119	0.001	0.029	0.003	0.212	0.000	0.545	0.003
Total porosity	r	0.462	−0.790**	0.608*	0.762**	0.392	0.839**	0.224	0.783**
	p	0.131	0.002	0.036	0.004	0.208	0.001	0.484	0.003
Air filled porosity	r	0.462	−0.790**	0.608*	0.762**	0.392	0.839**	0.224	0.783**
	p	0.131	0.002	0.036	0.004	0.208	0.001	0.484	0.003
Bulk density	r	−0.378	0.699*	−0.336	−0.371	0.014	−0.650*	0.161	−0.538
	p	0.226	0.011	0.286	0.236	0.966	0.022	0.618	0.071
Container capacity	r	0.287	−0.776**	0.650*	0.510	0.657*	0.734**	0.552	0.923**
	p	0.366	0.003	0.022	0.090	0.020	0.007	0.063	0.000
Ec	r	−0.161	0.755**	−0.301	−0.846**	−0.252	−0.951**	−0.140	−0.573
	p	0.618	0.005	0.342	0.001	0.430	0.000	0.665	0.051
pH	r	−0.385	0.832**	−0.510	−0.720**	−0.322	−0.860**	−0.119	−0.678*
	p	0.217	0.001	0.090	0.008	0.308	0.000	0.713	0.015
Organic matter	r	0.587*	−0.818**	0.629*	0.811**	0.301	0.741**	0.077	0.650*
	p	0.045	0.001	0.028	0.001	0.342	0.006	0.812	0.022
Organic C	r	0.587*	−0.818**	0.629*	0.811**	0.301	0.741**	0.077	0.650*
	p	0.045	0.001	0.028	0.001	0.342	0.006	0.812	0.022
C/N	r	−0.224	0.685*	−0.406	−0.846**	−0.315	−0.874**	−0.266	−0.601*
	p	0.484	0.014	0.191	0.001	0.319	0.000	0.404	0.039
N	r	0.413	−0.825**	0.573	0.804**	0.364	0.846**	0.238	0.755**
	p	0.183	0.001	0.051	0.002	0.245	0.001	0.457	0.005
K	r	−0.231	0.594*	−0.070	−0.455	0.210	−0.413	0.280	−0.105
	p	0.471	0.042	0.829	0.138	0.513	0.183	0.379	0.746
P	r	0.420	−0.147	0.441	0.510	0.224	−0.014	0.224	0.070
	p	0.175	0.649	0.152	0.090	0.484	0.966	0.484	0.829
Ca	r	−0.343	0.832**	−0.510	−0.734**	−0.378	−0.930**	−0.168	−0.727**
	p	0.276	0.001	0.090	0.007	0.226	0.000	0.602	0.007
Mg	r	−0.329	0.266	−0.420	−0.748**	−0.350	−0.392	−0.203	−0.189
	p	0.297	0.404	0.175	0.005	0.265	0.208	0.527	0.557
Na	r	−0.671*	0.769**	−0.692*	−0.811**	−0.287	−0.720**	−0.049	−0.629*
	p	0.017	0.003	0.013	0.001	0.366	0.008	0.880	0.028
Fe	r	−0.503	0.713**	−0.601*	−0.615*	−0.280	−0.769**	−0.133	−0.776**
	p	0.095	0.009	0.039	0.033	0.379	0.003	0.681	0.003
Cu	r	−0.580*	0.748**	−0.622*	−0.643*	−0.308	−0.517	−0.091	−0.497
	p	0.048	0.005	0.031	0.024	0.331	0.085	0.779	0.101
Zn	r	0.098	−0.119	0.545	0.364	0.818**	0.287	0.706*	0.455
	p	0.762	0.713	0.067	0.245	0.001	0.366	0.010	0.138
Mn	r	0.310	−0.106	0.261	0.141	0.120	0.394	−0.211	0.211
	p	0.327	0.744	0.413	0.662	0.711	0.205	0.510	0.510

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S9. The Correlations between the Growing Media properties and Plant Antioxidants—Broccoli.

Parameter		Phenols	DPPH	FRAP	MDA	H_2O_2	SOD	CAT	POD
PW	r	−0.194	0.518	−0.281	−0.432	−0.669*	−0.648*	−0.669*	−0.389
	p	0.545	0.084	0.377	0.161	0.017	0.023	0.017	0.212
Total porosity	r	0.189	−0.434	0.245	0.413	0.643*	0.601*	0.608*	0.378
	p	0.557	0.159	0.443	0.183	0.024	0.039	0.036	0.226
Air filled porosity	r	0.189	−0.434	0.245	0.413	0.643*	0.601*	0.608*	0.378
	p	0.557	0.159	0.443	0.183	0.024	0.039	0.036	0.226
Bulk density	r	−0.273	0.573	−0.217	−0.406	−0.678*	−0.846**	−0.462	−0.755**
	p	0.391	0.051	0.499	0.191	0.015	0.001	0.131	0.005
Container capacity	r	0.231	−0.287	0.266	0.357	0.755**	0.615*	0.301	0.126
	p	0.471	0.366	0.404	0.255	0.005	0.033	0.342	0.697
Ec	r	−0.077	0.524	−0.161	−0.629*	−0.322	−0.343	−0.699*	−0.210
	p	0.812	0.080	0.618	0.028	0.308	0.276	0.011	0.513
pH	r	−0.063	0.664*	−0.168	−0.413	−0.643*	−0.678*	−0.657*	−0.420
	p	0.846	0.018	0.602	0.183	0.024	0.015	0.020	0.175
Organic matter	r	0.294	−0.315	0.413	0.231	0.608*	0.608*	0.797**	0.357
	p	0.354	0.319	0.183	0.471	0.036	0.036	0.002	0.255
Organic C	r	0.294	−0.315	0.413	0.231	0.608*	0.608*	0.797**	0.357
	p	0.354	0.319	0.183	0.471	0.036	0.036	0.002	0.255
C/N	r	0.077	0.643*	0.000	−0.727**	−0.315	−0.308	−0.685*	−0.217
	p	0.812	0.024	1.000	0.007	0.319	0.331	0.014	0.499
N	r	0.133	−0.517	0.182	0.538	0.601*	0.594*	0.678*	0.378
	p	0.681	0.085	0.572	0.071	0.039	0.042	0.015	0.226
K	r	−0.035	0.566	−0.077	−0.378	−0.294	−0.559	−0.699*	−0.503
	p	0.914	0.055	0.812	0.226	0.354	0.059	0.011	0.095
P	r	0.084	0.210	0.259	−0.028	−0.091	−0.196	0.601*	−0.294
	p	0.795	0.513	0.417	0.931	0.779	0.542	0.039	0.354
Ca	r	−0.105	0.608*	−0.210	−0.434	−0.636*	−0.629*	−0.601*	−0.350
	p	0.746	0.036	0.513	0.159	0.026	0.028	0.039	0.265
Mg	r	−0.007	−0.035	−0.266	−0.021	0.084	0.259	−0.622*	0.378
	p	0.983	0.914	0.404	0.948	0.795	0.417	0.031	0.226
Na	r	−0.364	0.259	−0.497	−0.210	−0.580*	−0.559	−0.818**	−0.343
	p	0.245	0.417	0.101	0.513	0.048	0.059	0.001	0.276
Fe	r	−0.378	0.308	−0.357	−0.413	−0.657*	−0.636*	−0.517	−0.503
	p	0.226	0.331	0.255	0.183	0.020	0.026	0.085	0.095
Cu	r	−0.524	−0.021	−0.699*	−0.014	−0.517	−0.497	−0.783**	−0.084
	p	0.080	0.948	0.011	0.966	0.085	0.101	0.003	0.795
Zn	r	−0.189	0.028	0.049	−0.098	0.119	−0.266	0.000	−0.664*
	p	0.557	0.931	0.880	0.762	0.713	0.404	1.000	0.018
Mn	r	−0.190	−0.528	−0.070	−0.197	0.366	0.303	−0.049	0.331
	p	0.554	0.078	0.828	0.539	0.242	0.339	0.879	0.293

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S10. The Correlations between the Growing Media properties and Plant Antioxidants—Cabbage.

Parameter		Phenols	DPPH	FRAP	MDA	H$_2$O$_2$	SOD	CAT	POD
PW	r	0.345	0.713**	0.345	0.151	−0.518	0.216	−0.972**	0.022
	p	0.271	0.009	0.271	0.639	0.084	0.500	0.000	0.947
Total porosity	r	−0.350	−0.720**	−0.350	−0.196	0.524	−0.238	0.958**	−0.007
	p	0.265	0.008	0.265	0.542	0.080	0.457	0.000	0.983
Air filled porosity	r	−0.350	−0.720**	−0.350	−0.196	0.524	−0.238	0.958**	−0.007
	p	0.265	0.008	0.265	0.542	0.080	0.457	0.000	0.983
Bulk density	r	−0.245	0.643*	−0.224	−0.007	−0.168	0.497	−0.741**	0.413
	p	0.443	0.024	0.484	0.983	0.602	0.101	0.006	0.183
Container capacity	r	−0.294	−0.818**	−0.210	0.049	0.762**	−0.098	0.846**	−0.210
	p	0.354	0.001	0.513	0.880	0.004	0.762	0.001	0.513
Ec	r	0.455	0.378	0.455	0.154	−0.462	0.259	−0.818**	−0.168
	p	0.138	0.226	0.138	0.633	0.131	0.417	0.001	0.602
pH	r	0.259	0.608*	0.224	−0.049	−0.462	0.189	−0.909**	0.063
	p	0.417	0.036	0.484	0.880	0.131	0.557	0.000	0.846
Organic matter	r	−0.336	−0.664*	−0.476	−0.315	0.392	−0.091	0.867**	0.035
	p	0.286	0.018	0.118	0.319	0.208	0.779	0.000	0.914
Organic C	r	−0.336	−0.664*	−0.476	−0.315	0.392	−0.091	0.867**	0.035
	p	0.286	0.018	0.118	0.319	0.208	0.779	0.000	0.914
C/N	r	0.476	0.434	0.469	0.119	−0.552	0.056	−0.818**	−0.175
	p	0.118	0.159	0.124	0.713	0.063	0.863	0.001	0.587
N	r	−0.315	−0.699*	−0.357	−0.147	0.573	−0.119	0.930**	−0.042
	p	0.319	0.011	0.255	0.649	0.051	0.713	0.000	0.897
K	r	−0.231	0.203	−0.007	−0.098	−0.035	0.028	−0.378	0.217
	p	0.471	0.527	0.983	0.762	0.914	0.931	0.226	0.499
P	r	−0.490	−0.133	−0.804**	−0.517	0.210	0.713**	0.077	0.378
	p	0.106	0.681	0.002	0.085	0.513	0.009	0.812	0.226
Ca	r	0.343	0.594*	0.266	−0.014	−0.497	0.294	−0.944**	0.007
	p	0.276	0.042	0.404	0.966	0.101	0.354	0.000	0.983
Mg	r	0.853**	0.014	0.965**	0.469	−0.266	−0.357	−0.350	−0.678*
	p	0.000	0.966	0.000	0.124	0.404	0.255	0.265	0.015
Na	r	0.385	0.657*	0.545	0.448	−0.336	0.098	−0.853**	−0.098
	p	0.217	0.020	0.067	0.145	0.286	0.762	0.000	0.762
Fe	r	0.196	0.797**	0.217	0.357	−0.406	0.399	−0.909**	0.133
	p	0.542	0.002	0.499	0.255	0.191	0.199	0.000	0.681
Cu	r	0.301	0.552	0.573	0.406	−0.308	−0.119	−0.580*	−0.014
	p	0.342	0.063	0.051	0.191	0.331	0.713	0.048	0.966
Zn	r	−0.895**	−0.161	−0.671*	0.021	0.622*	0.462	0.315	0.497
	p	0.000	0.618	0.017	0.948	0.031	0.131	0.319	0.101
Mn	r	−0.239	−0.077	0.113	0.204	−0.113	−0.570	0.521	0.232
	p	0.454	0.811	0.727	0.524	0.727	0.053	0.082	0.467

**. Correlation is significant at the 0.01 level (2-tailed).*. Correlation is significant at the 0.05 level (2-tailed).

Table S11. Principal Component Analysis of Data Obtained for Cauliflower—Total Variance Explained for Plant Growth and Physiology.

Total Variance Explained		
Component	Initial Eigenvalues	Rotation Sums of Squared Loadings

	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	3.759	62.649	62.649	3.173	52.889	52.889
PC2	1.270	21.159	83.808	1.855	30.919	83.808

Extraction Method: Principal Component Analysis.

Table S12. Principal Component Analysis of Data Obtained for Cauliflower—Component matrix for plant growth and physiology.

	Component[a]	
	PC1	PC2
PW	−0.947	
Org. Matter	0.911	
SPAD	0.860	
F.Biomass	0.793	
Sto.cond.		0.916
T. Chl.		−0.898

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 3 iterations.

Table S13. Principal Component Analysis of Data Obtained for Cauliflower—Total Variance Explained for Antioxidants and Stress Factors.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	4.482	64.030	64.030	3.640	51.995	51.995
PC2	1.212	17.314	81.344	2.054	29.349	81.344

Extraction Method: Principal Component Analysis.

Table S14. Principal Component Analysis of Data Obtained for Cauliflower—Component matrix for plant stress factors and antioxidants.

	Component[a]	
	PC1	PC2
SOD0.	0.988	
DPPH	−0.806	
PW	−0.774	−0.572
H2O2	0.729	
MDA	0.680	0.550
Phenols		0.881
Org. Matter	0.638	0.727

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 3 iterations.

Table S15. Principal Component Analysis of Data Obtained for Cauliflower—Total Variance Explained for Plant Minerals.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	6.103	55.485	55.485	5.385	48.953	48.953
PC2	3.002	27.289	82.774	3.617	32.881	81.835

PC3	1.604	14.585	97.358	1.708	15.524	97.358

Extraction Method: Principal Component Analysis.

Table S16. Principal Component Analysis of Data Obtained for Cauliflower—Component matrix for leaf mineral levels.

	Component[a]		
	PC1	**PC2**	**PC3**
PW	0.972		
l-Ca	0.958		
l-Cu	0.949		
Org. Matter	−0.935		
l-Fe	−0.776		0.575
l-Na	−0.695		
l-N		0.989	
l-K		0.960	
l-P		0.872	
l-Mg	0.612	−0.758	

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 4 iterations.

Table S17. Principal Component Analysis of Data Obtained for Broccoli—Total Variance Explained for Plant Growth and Physiology.

	Total Variance Explained					
	Initial Eigenvalues			**Rotation Sums of Squared Loadings**		
Component	**Total**	**% of Variance**	**Cumulative %**	**Total**	**% of Variance**	**Cumulative %**
PC1	3.845	64.081	64.081	3.538	58.969	58.969
PC2	1.449	24.143	88.224	1.755	29.255	88.224

Extraction Method: Principal Component Analysis.

Table S18. Principal Component Analysis of Data Obtained for Broccoli—Component matrix for plant growth and physiology.

	Component[a]	
	PC1	**PC2**
PW	−0.932	
SPAD	0.918	
Stom. cond.	0.884	
Org. Matter	0.822	
T. Chl.		0.993
F.Biomass	0.608	0.679

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 3 iterations.

Table S19. Principal Component Analysis of Data Obtained for Broccoli—Total Variance Explained for Antioxidants and Stress Factors.

	Total Variance Explained					
	Initial Eigenvalues			**Rotation Sums of Squared Loadings**		
Component	**Total**	**% of Variance**	**Cumulative %**	**Total**	**% of Variance**	**Cumulative %**
PC1	3.664	52.347	52.347	3.511	50.155	50.155
PC2	1.753	25.040	77.387	1.906	27.232	77.387

Extraction Method: Principal Component Analysis.

Table 20. Principal Component Analysis of Data Obtained for Broccoli—Component matrix for plant stress factors and antioxidants.

	Component[a]	
	PC1	PC2
H_2O_2	0.911	
PW	−0.908	
SOD	0.889	
Org. Matter	0.834	
DPPH		0.885
Phenols		0.838
MDA		−0.532

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 3 iterations.

Table S21. Principal Component Analysis of Data Obtained for Broccoli—Total Variance Explained for Plant Minerals.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	6.751	61.373	61.373	6.282	57.111	57.111
PC2	2.450	22.269	83.642	2.446	22.235	79.346
PC3	1.265	11.497	95.139	1.737	15.793	95.139

Extraction Method: Principal Component Analysis.

Table S22. Principal Component Analysis of Data Obtained for Broccoli—Component matrix for leaf mineral levels.

	Component[a]		
	PC1	PC2	PC3
l-Fe	−0.971		
PW	0.954		
l-P	0.928		
l-K	0.916		
Org. Matter	−0.864		
l-Na	−0.831		
l-Mg	−0.748		0.542
l-Cu	0.724	0.564	
l-Ca		0.943	
l−N		0.818	

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 6 iterations.

Table S23. Principal Component Analysis of Data Obtained for Cabbage—Total Variance Explained for Plant Growth and Physiology.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	3.772	62.861	62.861	3.745	62.414	62.414

PC2	1.131	18.852	81.714	1.158	19.299	81.714

Extraction Method: Principal Component Analysis.

Table S24. Principal Component Analysis of Data Obtained for Cabbage—Component matrix for plant growth and physiology.

	Component[a]	
	PC1	PC2
PW	−0.958	
Org. Matter	0.950	
F.Biomass	0.872	
T. Chl.	0.819	
SPAD	0.658	0.536
Sto. cond.		0.899

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 3 iterations.

Table S25. Principal Component Analysis of Data Obtained for Cabbage—Total Variance Explained for Antioxidants and Stress Factors.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	3.156	45.079	45.079	3.087	44.104	44.104
PC2	1.731	24.726	69.805	1.795	25.646	69.751
PC3	1.381	19.728	89.534	1.385	19.783	89.534

Extraction Method: Principal Component Analysis.

Table S26. Principal Component Analysis of Data Obtained for Cabbage—Component matrix for plant stress factors and antioxidants.

	Component[a]		
	PC1	PC2	PC3
PW	0.983		
DPPH	0.926		
Org. Matter	−0.883		
H_2O_2	−0.617	0.605	
SOD		0.875	
Phenols		−0.812	
MDA			0.927

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 4 iterations.

Table S27. Principal Component Analysis of Data Obtained for Cabbage—Total Variance Explained for Plant Minerals.

	Total Variance Explained					
	Initial Eigenvalues			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
PC1	6.881	62.558	62.558	4.131	37.558	37.558
PC2	2.556	23.235	85.793	3.832	34.834	72.392
PC3	1.003	9.118	94.911	2.477	22.519	94.911

Extraction Method: Principal Component Analysis.

Table S28. Principal Component Analysis of Data Obtained for Cabbage—Component matrix for leaf mineral levels.

	Component[a]		
	PC1	**PC2**	**PC3**
l-Zn	0.992		
Org. Matter	−0.897		
PW	0.858		
l-Cu	0.701	0.500	
l-N		0.976	
l-K		0.930	
l-P		0.887	
l-Ca	0.574	0.695	
l-Na			0.968
l-Mg	0.607		0.716

Extraction Method: Principal Component Analysis; Rotation Method: Varimax with Kaiser Normalization; a. Rotation converged in 4 iterations.