**Supplementary Material S4.** Statistical significance (*P*) of mean daily photosynthetically active radiation (PAR), phosphate (Pi), phosphite (Phi), and their interactions on flavonoid concentration in two *Brassica* species. Tukey’s test, ns= not significant and \* significant at *P* ≤ 0.05.

|  |  |
| --- | --- |
|  | ***Brassica campestris*** |
| **Study factors and their interactions** | **Quercetin** | **Kaempferol** | **Isorhamnetin** | **Total flavonoids** |
| PAR | <0.0001\* | <0.0001\* | <0.0001 \* | <0.0001 \* |
| Pi |  0.0031 \* | 0.1474 ns |  0.0039 \* |  0.0203 \* |
| Phi | 0.2485 ns | 0.5378 ns | 0.4965 ns | 0.8070 ns |
| PAR × Pi | 0.0807 ns | 0.6701 ns | 0.4522 ns | 0.8338 ns |
| PAR × Phi | 0.0673 ns | 0.3851 ns | 0.4367 ns | 0.3942 ns |
| Pi × Phi | 0.1157 ns | 0.3289 ns | 0.1370 ns | 0.1891 ns |
| PAR × Pi × Phi | 0.3528 ns | 0.7803 ns | 0.3185 ns | 0.5935 ns |
|  | ***Brassica juncea*** |
| **Study factors and their interactions** | **Quercetin** | **Kaempferol** | **Isorhamnetin** | **Cyanidin** | **Total flavonoids** |
| PAR | 0.0036 \* | <0.0001 \* | 0.0017 \* | 0.0831ns | 0.0003\* |
| Pi | 0.0039 \* | 0.3261 ns | 0.0831 ns | 0.0058 \* | 0.2521 ns |
| Phi | 0.4901 ns | 0.6969 ns | 0.8456 ns | 0.1364ns | 0.7711 ns |
| PAR × Pi | 0.9017 ns | 0.2315 ns | 0.6456 ns | 0.3649ns | 0.4486 ns |
| PAR × Phi | 0.0014 \* | 0.0200 \* | 0.0256 \* | 0.0034 \* | 0.0019\* |
| Pi × Phi | 0.4189 ns | 0.3609 ns | 0.9732 ns | 0.3309ns | 0.5696 ns |
| PAR × Pi × Phi | 0.1324 ns | 0.8617 ns | 0.6880 ns | 0.1168ns | 0.5102 ns |