

Supplementary Table S1. Effect of storage period (5 °C and darkness) on the photochemical reflectance index (PRI), renormalized difference vegetation index (RDVI), water index (WI), normalized difference vegetation index (NDVI), ratio of WI with NDVI (WI:NDVI), normalized water index (NWI), optimized soil-adjusted vegetation index (OSAVI), structure independent pigment index (SIPI), blue/green index 2 (BGI2), triangular vegetation index (TVI), and modified chlorophyll absorption in reflectance index (MCARI) of the adaxial leaf surface in three cut chrysanthemum cultivars. The indices equation is provided in Table 1. Different letters within each line indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$ (n = 6).

Cultivar	Index	Storage (d)				P value
		0	7	14	21	
'Pina Colada'	PRI570	-0.013	-0.012	-0.008	-0.011	1.00E+00
	RDVI	7.238	7.364	7.008	6.830	1.00E+00
	WI	0.970	0.931	0.934	0.940	1.00E+00
	NDVI	0.515	0.520	0.495	0.471	1.00E+00
	WI:NDVI	1.884	1.791	1.887	1.996	1.00E+00
	NWI	0.015	0.036	0.034	0.031	1.00E+00
	OSAVI	0.597	0.603	0.574	0.546	1.00E+00
	SIPI	0.504	0.514	0.494	0.465	1.00E+00
	BGI2	0.782	0.771	0.814	0.815	1.00E+00
	TVI	7044	7192	6623	6844	1.00E+00
	MCARI	36.09	41.53	29.95	32.27	1.00E+00
'Code Green'	PRI570	-0.007	-0.011	-0.008	0.004	1.00E+00
	RDVI	6.560	7.177	7.571	6.667	1.00E+00
	WI	0.967	0.916	0.931	0.933	1.00E+00
	NDVI	0.481	0.512	0.539	0.477	1.00E+00
	WI:NDVI	2.012	1.789	1.727	1.956	1.00E+00
	NWI	0.017	0.044	0.036	0.034	1.00E+00
	OSAVI	0.557	0.593	0.625	0.553	1.00E+00

	SIPI	0.471	0.505	0.536	0.392	1.00E+00
	BGI2	0.831	0.788	0.754	1.056	1.00E+00
	TVI	6085	6845	6442	6405	1.00E+00
	MCARI	25.84	35.47	45.34	35.63	1.00E+00
'Euro White'	PRI570	-0.009	0.000	-0.005	-0.006	1.00E+00
	RDVI	7.921	7.583	7.752	6.958	1.00E+00
	WI	0.971	0.949	0.960	0.936	1.00E+00
	NDVI	0.552	0.526	0.539	0.499	1.00E+00
	WI:NDVI	1.760	1.803	1.781	1.876	1.00E+00
	NWI	0.015	0.026	0.020	0.033	1.00E+00
	OSAVI	0.640	0.610	0.625	0.578	1.00E+00
	SIPI	0.545	0.519	0.532	0.494	1.00E+00
	BGI2	0.781	0.812	0.797	0.788	1.00E+00
	TVI	7727	7405	7566	6705	1.00E+00
	MCARI	33.10	33.25	33.17	32.95	1.00E+00

Supplementary Table S2. Effect of storage period (5 °C and darkness) on the photochemical reflectance index (PRI), renormalized difference vegetation index (RDVI), water index (WI), normalized difference vegetation index (NDVI), ratio of WI with NDVI (WI:NDVI), normalized water index (NWI), optimized soil-adjusted vegetation index (OSAVI), structure independent pigment index (SIPI), blue/green index 2 (BGI2), triangular vegetation index (TVI), and modified chlorophyll absorption in reflectance index (MCARI) of the abaxial leaf surface in three cut chrysanthemum cultivars. The indices equation is provided in Table 1. Different letters within each line indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$ (n = 6).

Cultivar	Index	Storage (d)				P value
		0	7	14	21	
'Pina Colada'	PRI570	-0.005	-0.007	-0.003	-0.012	1.00E+00
	RDVI	6.193	6.447	5.994	6.204	1.00E+00
	WI	0.940	0.916	0.920	0.927	1.00E+00
	NDVI	0.452	0.447	0.426	0.433	1.00E+00
	WI:NDVI	2.082	2.049	2.161	2.140	1.00E+00
	NWI	0.031	0.044	0.041	0.038	1.00E+00
	OSAVI	0.523	0.518	0.494	0.502	1.00E+00
	SIPI	0.452	0.450	0.433	0.440	1.00E+00
	BGI2	0.725	0.724	0.757	0.726	1.00E+00
	TVI	6232	5979	5966	5736	1.00E+00
	MCARI	44.61	53.59	38.80	47.89	1.00E+00
'Code Green'	PRI570	-0.011	-0.010	-0.006	-0.005	1.00E+00
	RDVI	5.667	5.277	6.259	5.689	1.00E+00
	WI	0.935	0.899	0.919	0.918	1.00E+00
	NDVI	0.406	0.402	0.437	0.398	1.00E+00
	WI:NDVI	2.304	2.237	2.103	2.309	1.00E+00
	NWI	0.034	0.053	0.042	0.043	1.00E+00
	OSAVI	0.470	0.466	0.507	0.461	1.00E+00

	SIPI	0.405	0.406	0.446	0.412	1.00E+00
	BGI2	0.749	0.745	0.710	0.707	1.00E+00
	TVI	5769	4981	5735	5353	1.00E+00
	MCARI	37.09	34.60	53.04	49.76	1.00E+00
‘Euro White’	PRI570	-0.019	-0.005	-0.012	-0.009	1.00E+00
	RDVI	6.214	6.059	6.137	5.647	1.00E+00
	WI	0.945	0.928	0.937	0.940	1.00E+00
	NDVI	0.427	0.426	0.427	0.381	1.00E+00
	WI:NDVI	2.212	2.179	2.196	2.466	1.00E+00
	NWI	0.028	0.037	0.033	0.031	1.00E+00
	OSAVI	0.495	0.494	0.495	0.442	1.00E+00
	SIPI	0.427	0.425	0.426	0.394	1.00E+00
	BGI2	0.698	0.726	0.712	0.729	1.00E+00
	TVI	6816	5626	6221	5474	1.00E+00
	MCARI	50.12	49.82	50.00	46.86	1.00E+00

Supplementary Table S3. Effect of storage period (5 °C and darkness) on the photochemical reflectance index (PRI), renormalized difference vegetation index (RDVI), water index (WI), normalized difference vegetation index (NDVI), ratio of WI with NDVI (WI:NDVI), normalized water index (NWI), optimized soil-adjusted vegetation index (OSAVI), structure independent pigment index (SIPI), blue/green index 2 (BGI2), triangular vegetation index (TVI), and modified chlorophyll absorption in reflectance index (MCARI) of the flower (top view) in three cut chrysanthemum cultivars. The indices equation is provided in Table 1. Different letters within each line indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$ (n = 6).

Cultivar	Index	Storage (d)				P value
		0	7	14	21	
'Pina Colada'	PRI570	0.036	0.030	0.040	0.026	1.00E+00
	RDVI	0.665	0.589	0.773	0.674	1.00E+00
	WI	1.017	0.998	0.998	0.998	1.00E+00
	NDVI	0.036	0.032	0.042	0.036	1.00E+00
	WI:NDVI	28.44	30.73	23.58	27.87	1.00E+00
	NWI	-0.008	0.001	0.001	0.001	1.00E+00
	OSAVI	0.041	0.038	0.049	0.042	1.00E+00
	SIPI	0.087	0.075	0.115	0.087	1.00E+00
	BGI2	0.864	0.905	0.877	0.890	1.00E+00
	TVI	831.7	542.5	478.6	741.8	1.00E+00
	MCARI	6.529	5.467	4.445	7.933	1.00E+00
'Code Green'	PRI570	-0.001	-0.013	-0.005	0.006	1.00E+00
	RDVI	7.730	8.484	8.092	7.592	1.00E+00
	WI	1.043	1.030	1.040	1.049	1.00E+00
	NDVI	0.530	0.589	0.542	0.509	1.00E+00
	WI:NDVI	1.969	1.748	1.920	2.060	1.00E+00
	NWI	-0.021	-0.015	-0.019	-0.024	1.00E+00
	OSAVI	0.614	0.683	0.628	0.590	1.00E+00

	SIPI	0.529	0.589	0.551	0.534	1.00E+00
	BGI2	0.605	0.574	0.559	0.519	1.00E+00
	TVI	8334	8918	8189	7900	1.00E+00
	MCARI	75.97	84.15	96.62	103.8	1.00E+00
'Euro White'	PRI570	0.036	0.041	0.040	0.030	1.00E+00
	RDVI	0.353	0.314	0.551	0.468	1.00E+00
	WI	1.040	1.031	1.023	1.040	1.00E+00
	NDVI	0.019	0.016	0.029	0.025	1.00E+00
	WI:NDVI	56.05	62.86	34.84	42.18	1.00E+00
	NWI	-0.020	-0.015	-0.011	-0.019	1.00E+00
	OSAVI	0.022	0.019	0.034	0.029	1.00E+00
	SIPI	0.119	0.108	0.139	0.109	1.00E+00
	BGI2	0.794	0.833	0.810	0.837	1.00E+00
	TVI	313.6	100.9	150.3	395.4	1.15E-09
	MCARI	1.383	1.961	2.319	4.305	1.00E+00

Supplementary Table S4. Vase life, transpiration during vase life (data in Fig. 1), cut flower water content, rehydration-induced cut flower fresh weight increase following 10 % weight loss (data in Fig. 7), leaf hydrogen peroxide (H₂O₂) content, leaf malondialdehyde (MDA) content, leaf total phenolic content, and leaf total flavonoid content (data in Fig. 8) as function of storage time (5 °C and darkness) in three cut chrysanthemum cultivars. Means \pm SE followed by different letters within each column indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$.

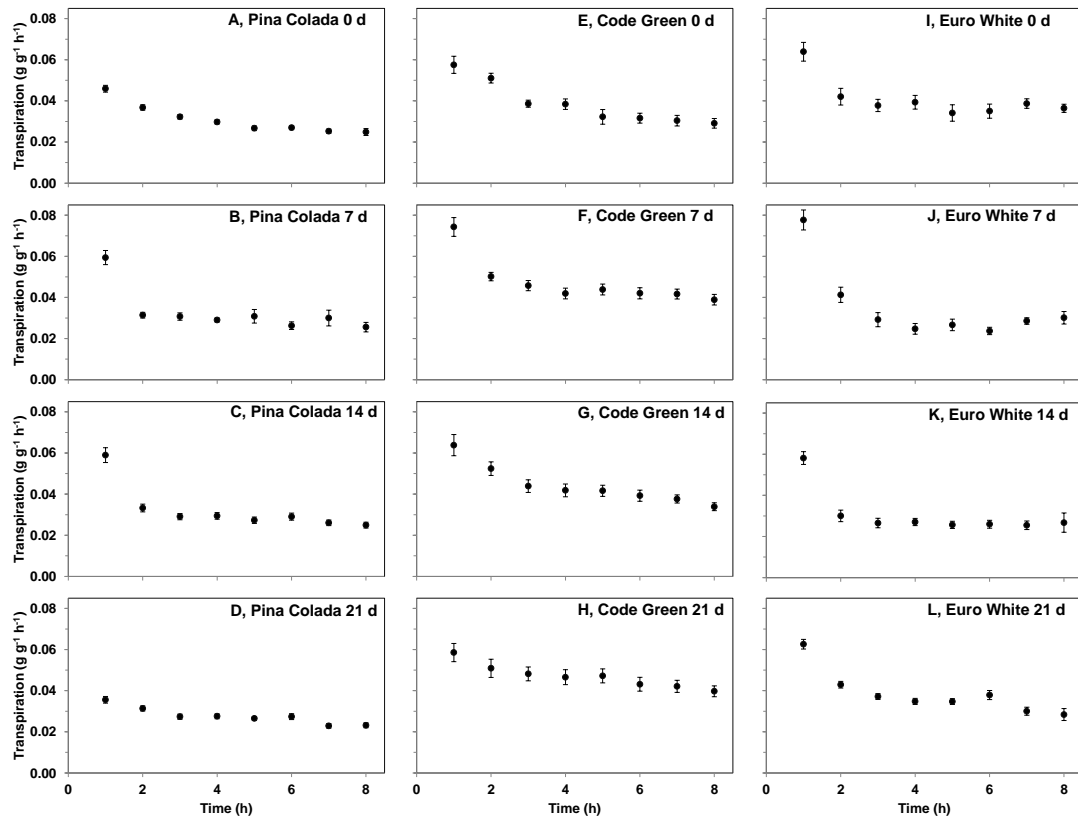
Cultivar	Storage period (d)	Vase life (d)	Transpiration during vase life (g g ⁻¹ d ⁻¹)	Water content (%)	Weight increase (%)	H ₂ O ₂ content (μmol g ⁻¹)	MDA content (μmol g ⁻¹)	Total phenolic content (μg GAE g ⁻¹)	Total flavonoid content (μg RUE g ⁻¹)
'Pina Colada'	0	25.5 \pm 0.401 ^a	0.231 \pm 0.00745	86.6 \pm 0.141 ^{bcd}	12.3 \pm 0.456 ^{ab}	0.362 \pm 0.00669 ^f	0.61 \pm 0.00436 ^g	21.4 \pm 0.348 ^{hi}	10.6 \pm 0.348 ^e
'Code Green'		26.4 \pm 0.4 ^a	0.27 \pm 0.0119	83.6 \pm 0.472 ^g	7.34 \pm 0.435 ^{de}	0.361 \pm 0.01 ^f	0.545 \pm 0.00737 ^b	19.6 \pm 1.13 ^j	11.2 \pm 0.318 ^{fg}
'Euro White'		25.7 \pm 0.335 ^a	0.26 \pm 0.00772	86.1 \pm 0.184 ^{cf}	6.95 \pm 0.588 ^{de}	0.378 \pm 0.013 ^f	0.593 \pm 0.0112 ^{gh}	17.4 \pm 0.536 ^j	12.1 \pm 1 ^{fg}
'Pina Colada'	7	20.1 \pm 1.24 ^b	0.26 \pm 0.0146	87.2 \pm 0.194 ^{acd}	12.1 \pm 0.905 ^{ab}	0.378 \pm 0.00721 ^f	0.629 \pm 0.00722 ^{fg}	24.8 \pm 0.219 ^{gh}	11.1 \pm 0.393 ^e
'Code Green'		17.9 \pm 0.482 ^{bc}	0.22 \pm 0.0104	85.5 \pm 0.378 ^{ef}	8.78 \pm 0.35 ^{cd}	0.414 \pm 0.00577 ^{ef}	0.682 \pm 0.0142 ^{ef}	28.2 \pm 0.684 ^{fg}	11.5 \pm 0.291 ^{fg}
'Euro White'		16.1 \pm 0.849 ^c	0.27 \pm 0.0152	87.1 \pm 0.385 ^{acd}	7.27 \pm 0.457 ^{de}	0.464 \pm 0.00418 ^{de}	0.83 \pm 0.0131 ^c	33 \pm 0.819 ^{de}	12.7 \pm 0.12 ^{fg}
'Pina Colada'	14	12.5 \pm 0.401 ^d	0.262 \pm 0.0337	87.7 \pm 0.0879 ^{ab}	13.2 \pm 0.516 ^a	0.415 \pm 0.0162 ^{ef}	0.639 \pm 0.0105 ^{fg}	30.1 \pm 0.639 ^{ef}	14 \pm 0.379 ^{ef}
'Code Green'		10.6 \pm 0.267 ^{de}	0.232 \pm 0.0196	85 \pm 0.45 ^{fg}	10.3 \pm 0.497 ^{bc}	0.486 \pm 0.00601 ^{cd}	0.761 \pm 0.015 ^d	35.7 \pm 0.737 ^d	16.2 \pm 0.809 ^{de}
'Euro White'		8.5 \pm 0.719 ^{ef}	0.286 \pm 0.0335	87.3 \pm 0.158 ^{ac}	11.2 \pm 0.509 ^{ac}	0.532 \pm 0.0165 ^{bc}	0.941 \pm 0.0078 ^b	41.3 \pm 0.968 ^c	18.8 \pm 0.723 ^{cd}
'Pina Colada'	21	6.8 \pm 0.757 ^{fg}	0.265 \pm 0.0376	87.5 \pm 0.0993 ^{ac}	12.7 \pm 0.621 ^{ab}	0.436 \pm 0.0155 ^{de}	0.721 \pm 0.0109 ^{de}	42.8 \pm 0.819 ^c	19.9 \pm 0.689 ^{bc}
'Code Green'		4.8 \pm 0.49 ^{gh}	0.292 \pm 0.0165	85.9 \pm 0.428 ^{df}	4.86 \pm 0.476 ^e	0.576 \pm 0.00837 ^{ab}	0.957 \pm 0.0106 ^b	48.5 \pm 0.504 ^b	22.1 \pm 0.145 ^b
'Euro White'		2.3 \pm 0.3 ^b	0.277 \pm 0.0573	88 \pm 0.158 ^a	7.09 \pm 0.429 ^{de}	0.618 \pm 0.00839 ^a	1.06 \pm 0.0251 ^a	56.2 \pm 0.78 ^a	25.2 \pm 0.491 ^a
n		10	10	12	12	3	3	3	3
P									
Cultivar		<0.001	0.555	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Storage period		<0.001	0.656	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cultivar \times Storage period		0.005	0.725	0.162	<0.001	<0.001	<0.001	<0.001	0.011

Supplementary Table S5. Leaf mineral analysis of three cut chrysanthemum cultivars, employed for vase life evaluation (n = 6). Means \pm SE followed by different letters within each column indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$.

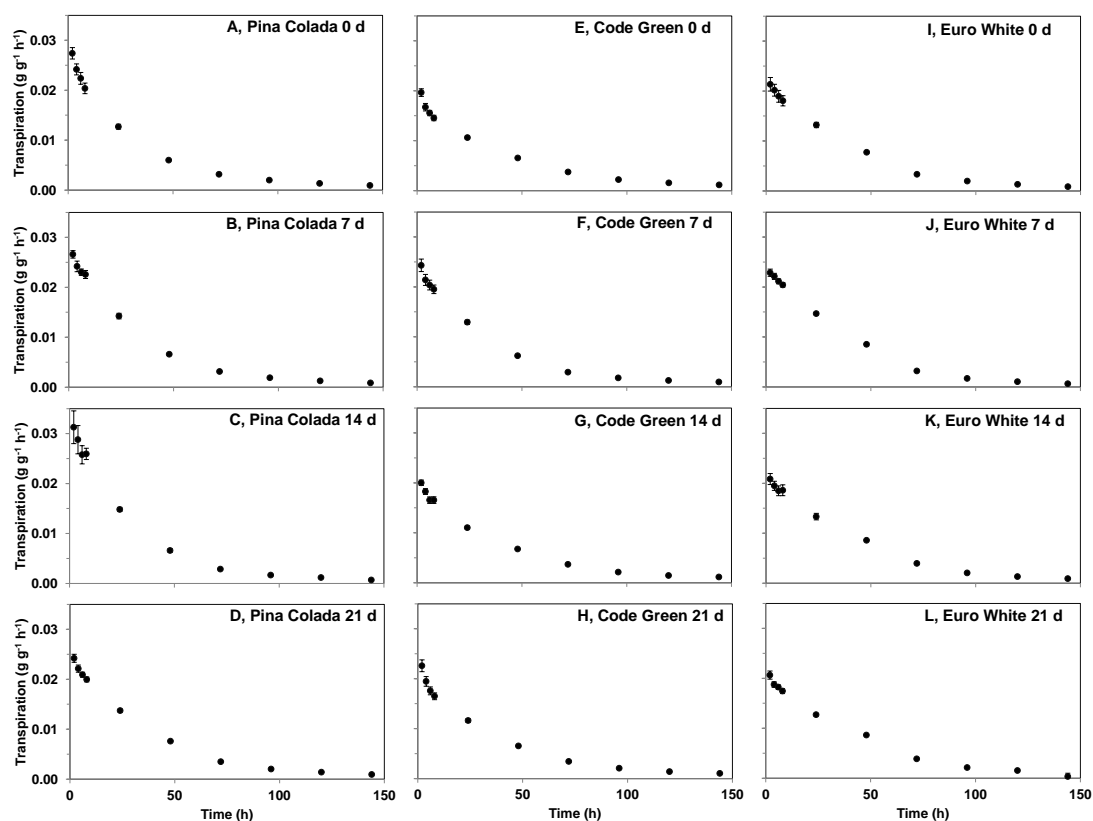
Cultivar	N (%)	P (%)	K (%)	Na (%)	Ca (%)	Zn (%)	Fe (%)	Mg (%)
'Pina Colada'	7.42 \pm 0.14a	0.18 \pm 0.02c	3.46 \pm 0.14ab	0.24 \pm 0.01a	0.38 \pm 0.02a	0.003 \pm 0.00b	0.010 \pm 0.00a	0.17 \pm 0.03a
'Code Green'	4.72 \pm 0.06b	0.16 \pm 0.01a	3.95 \pm 0.19a	0.21 \pm 0.01ab	0.36 \pm 0.02a	0.004 \pm 0.00a	0.009 \pm 0.00ab	0.22 \pm 0.05a
'Euro White'	4.32 \pm 0.04c	0.19 \pm 0.04b	3.42 \pm 0.07b	0.19 \pm 0.00b	0.37 \pm 0.03a	0.003 \pm 0.00ab	0.008 \pm 0.00b	0.18 \pm 0.00a
<i>P</i>	0.000	0.840	0.033	0.001	0.916	0.041	0.008	0.485

Supplementary Table S6. Floral mineral analysis of three cut chrysanthemum cultivars, employed for vase life evaluation (n = 6). Means \pm SE followed by different letters within each column indicate significant differences based on Tukey's Honest significant difference test at $P \leq 0.05$.

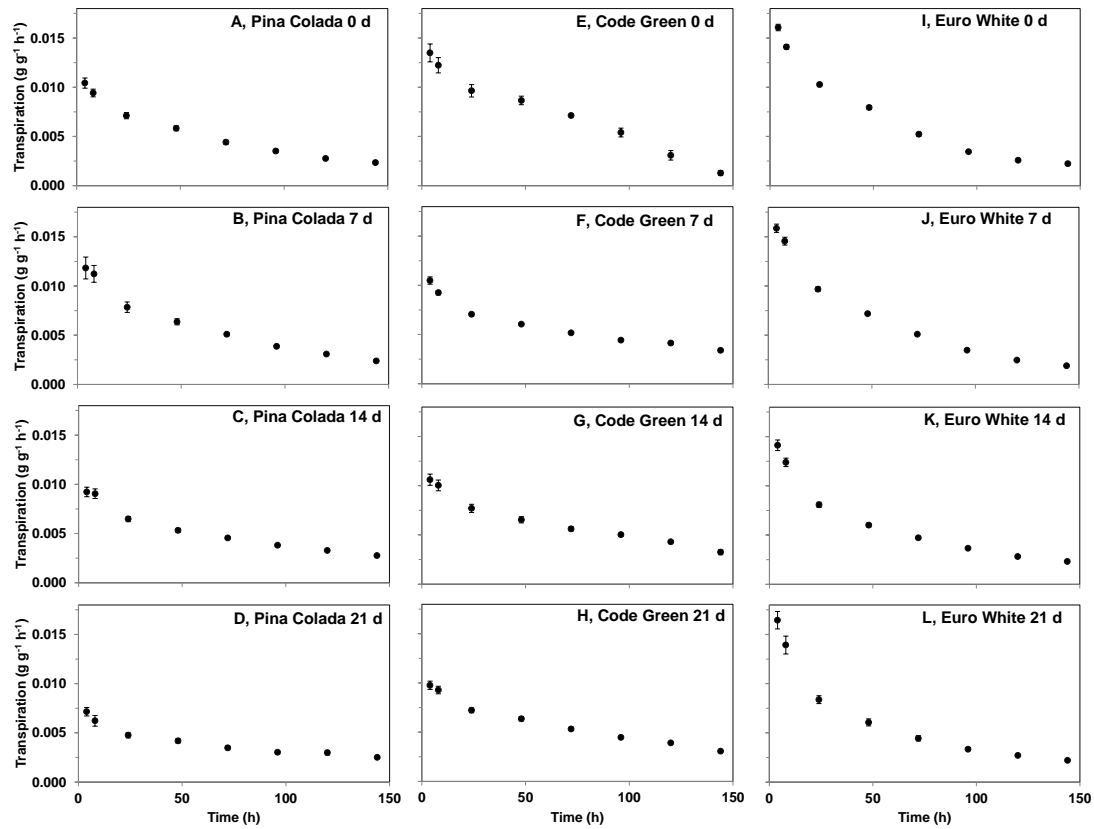
Cultivar	N (%)	P (%)	K (%)	Na (%)	Ca (%)	Zn (%)	Fe (%)	Mg (%)
'Pina Colada'	3.22 \pm 0.5b	0.19 \pm 0.00a	1.83 \pm 0.04b	0.14 \pm 0.00b	0.02 \pm 0.00b	0.003 \pm 0.00a	0.003 \pm 0.00a	0.22 \pm 0.03a
'Code Green'	3.64 \pm 0.4a	0.23 \pm 0.01a	2.58 \pm 0.18a	0.16 \pm 0.00a	0.08 \pm 0.01a	0.003 \pm 0.00a	0.003 \pm 0.00a	0.12 \pm 0.00b
'Euro White'	2.78 \pm 0.3c	0.16 \pm 0.01a	2.26 \pm 0.02a	0.15 \pm 0.00b	0.06 \pm 0.00a	0.002 \pm 0.00a	0.002 \pm 0.00a	0.15 \pm 0.01b
<i>P</i>	0.000	0.000	0.01	0.000	0.000	0.361	1.000	0.005



Supplementary Figure S1. Leaf transpirational water loss, per initial weight, as a function of desiccation time in three cut chrysanthemum cultivars stored (5 °C and darkness) for different periods (0, 7, 14, and 21 d) prior to evaluation (n = 12). When the SE bars are not visible, the SE is smaller than the symbol.



Supplementary Figure S2. Stem transpirational water loss, per initial weight, as a function of desiccation time in three cut chrysanthemum cultivars stored (5 °C and darkness) for different periods (0, 7, 14, and 21 d) prior to evaluation (n = 12). When the SE bars are not visible, the SE is smaller than the symbol.



Supplementary Figure S3. Floral transpirational water loss, per initial weight, as a function of desiccation time in three cut chrysanthemum cultivars stored (5 °C and darkness) for different periods (0, 7, 14, and 21 d) prior to evaluation (n = 12). When the SE bars are not visible, the SE is smaller than the symbol.