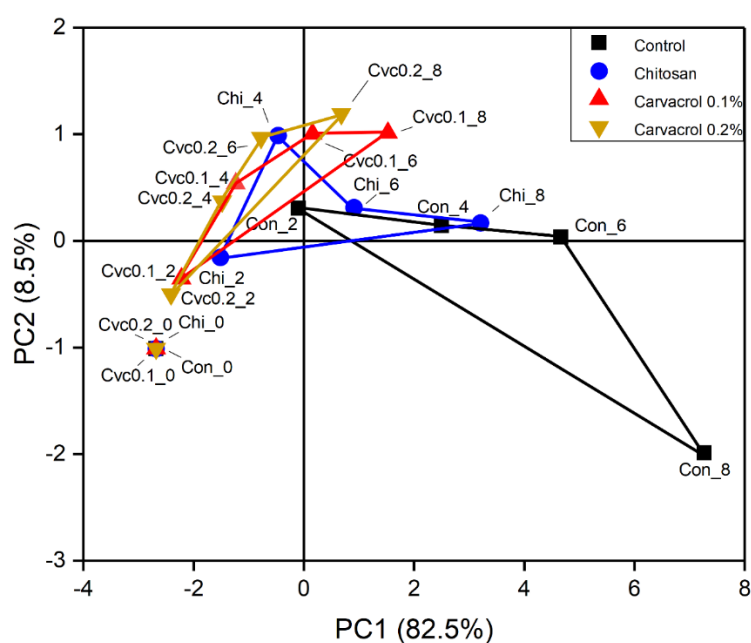1   **Table S1.** The R value of Pearson correlation analysis among the measured parameters. *

Pearson correlation	Firmness	SSC	TA	WL	L*	a*	b*	ΔE*	TPC
Firmness	1								
SSC	0.931	1							
TA	0.609	0.423	1						
WL	−0.976	−0.877	−0.737	1					
L*	−0.980	−0.886	−0.734	0.999	1				
a*	−0.996	−0.947	−0.567	0.955	0.961	1			
b*	−0.998	−0.919	−0.620	0.979	0.982	0.992	1		
ΔE*	−0.994	−0.912	−0.685	0.994	0.996	0.982	0.995	1	
TPC	0.993	0.920	0.649	−0.992	−0.992	−0.981	−0.993	−0.997	1

2   * SSC: soluble solid content, TA: titratable acid, WL: weight loss, TPC: total phenolic acid content.

3

4

5   **Figure S1.** Principal component score plots containing enclosed areas of each group. Con:
6   control; Chi: chitosan; Cvc: carvacrol. The number following the underscore indicates days
7   after coating.