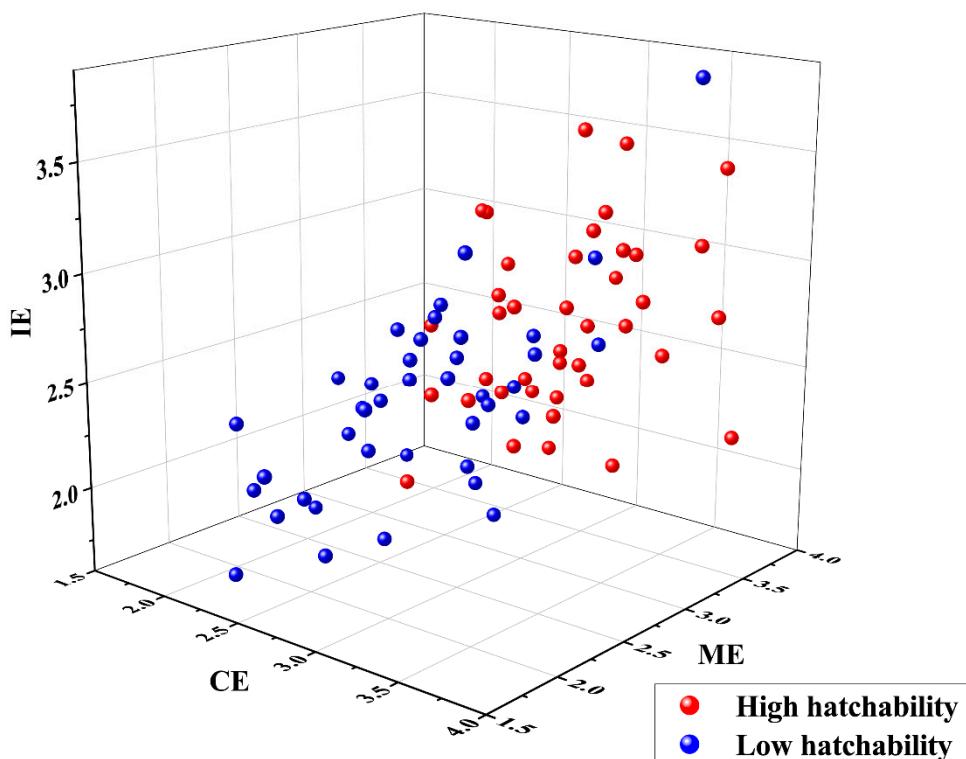
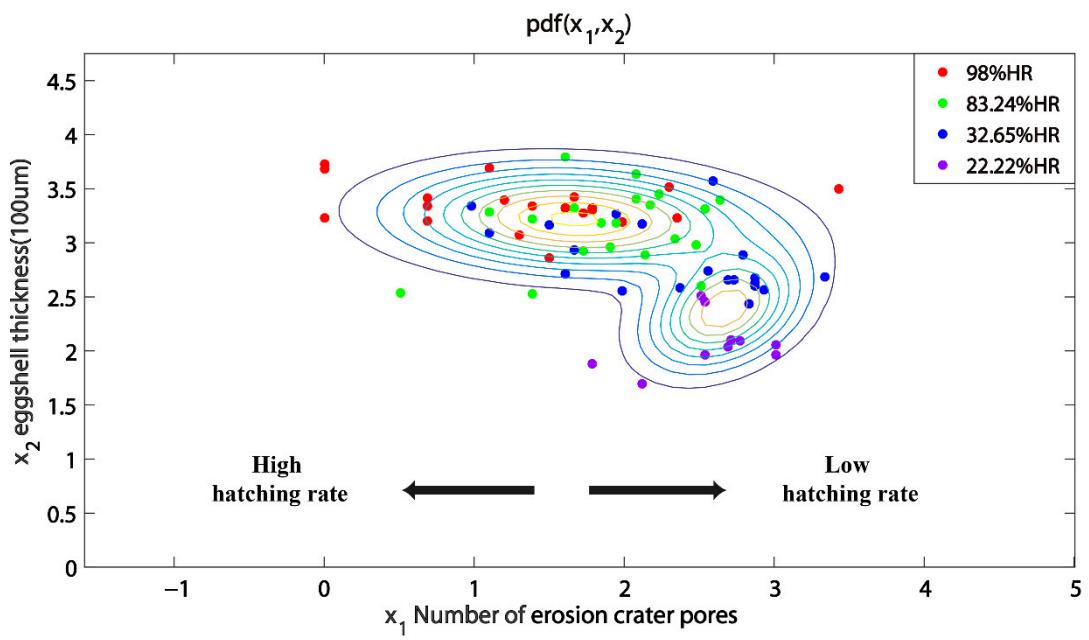


Supplementary Table S1. Normal Test Table for Number of erosion crater pores and Thickness at Cracking End, Middle End, and Complete End of Eggshell

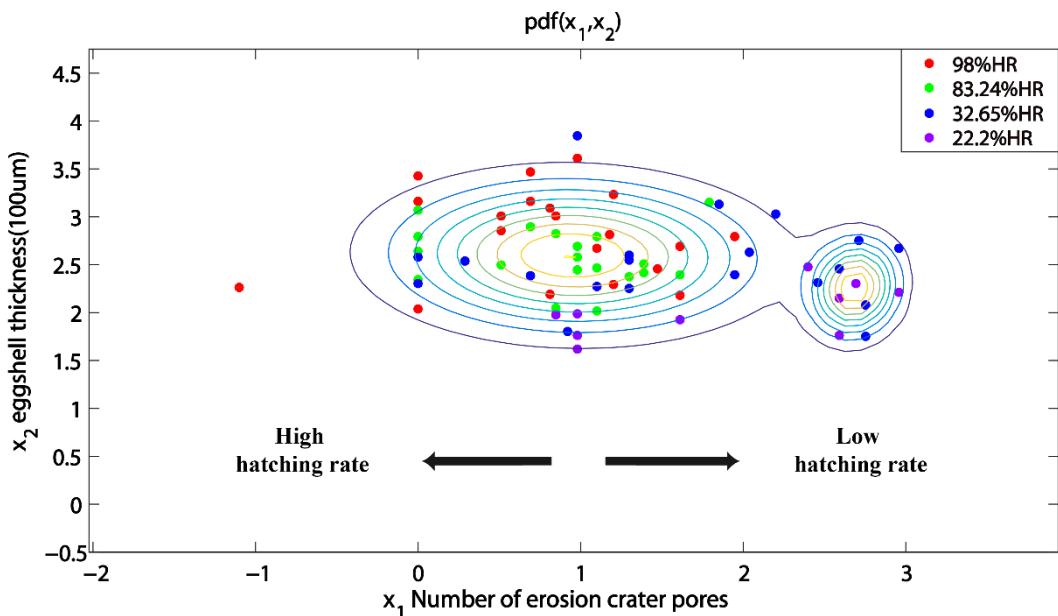
	Number of erosion crater pores			Thickness		
	CE	ME	IE	CE	ME	IE
statistic	0.195	0.144	0.238	0.079	0.088	0.062
df	80	80	80	80	80	80
Sig.	0.000	0.003	0.000	0.200	0.200	0.200



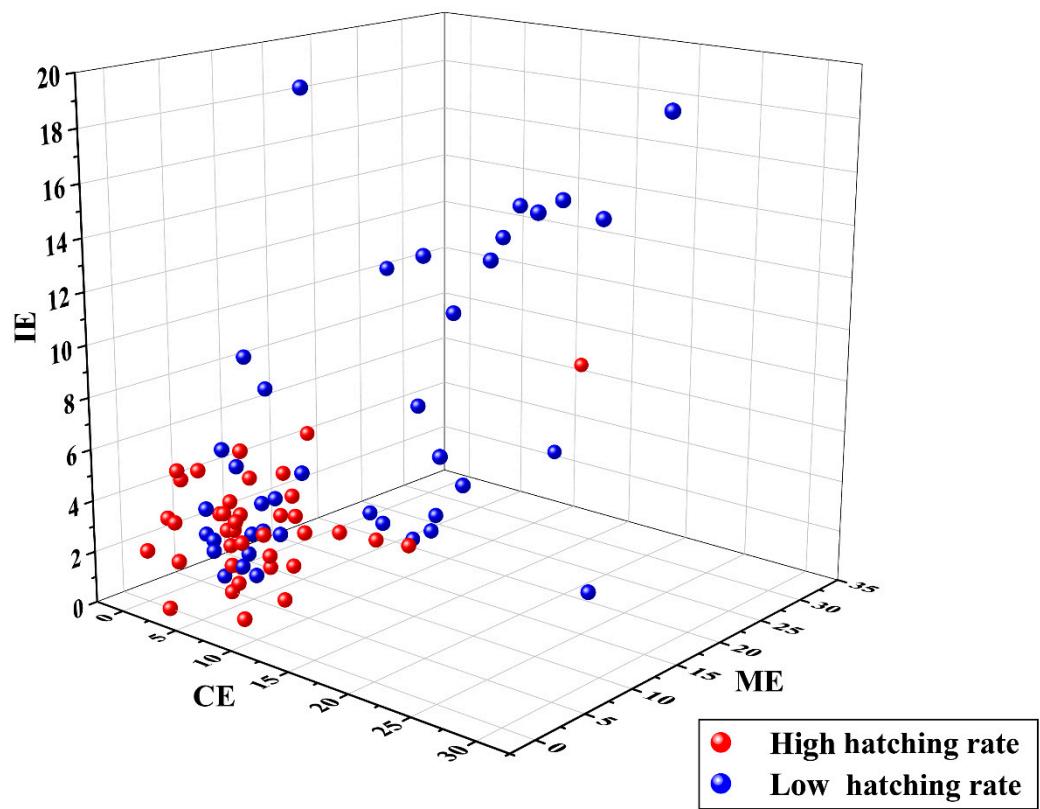
Supplementary Fig. S1. 3D map of average eggshell thickness



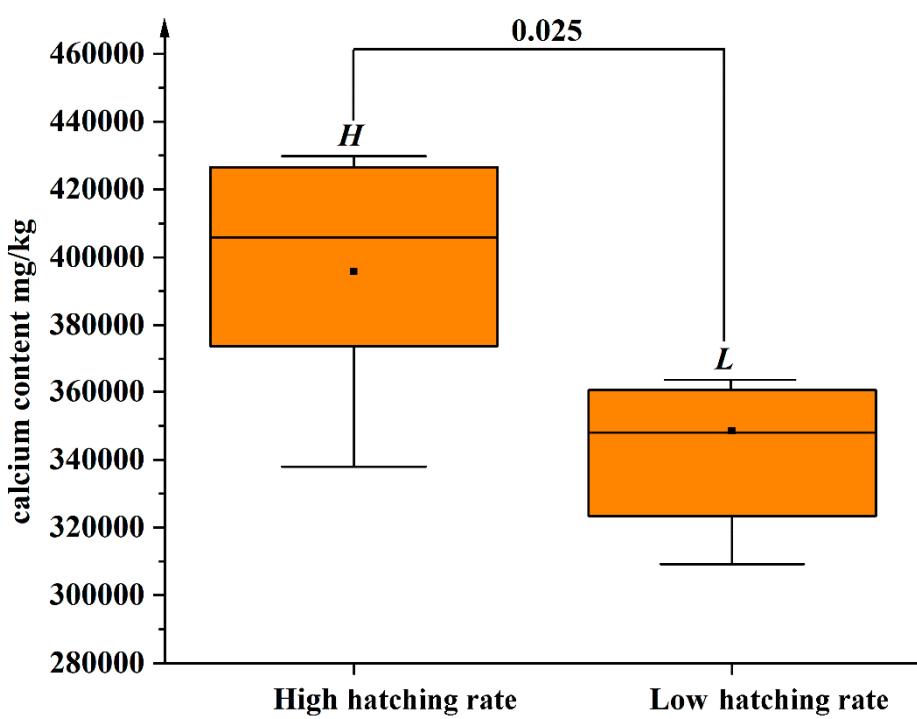
Supplementary Fig. S2. ME Gaussian Mixture Clustering Model



Supplementary Fig. S3. IE Gaussian Mixture Clustering Model



Supplementary Fig. S4. 3D map of average the number of erosion crater pores



Supplementary Fig. S5. Calcium content in eggshells with different hatching rates