

Figure S1. Number and location of sampled *Guanxi* pomelo orchards in Pinghe County, Fujian Province, China.

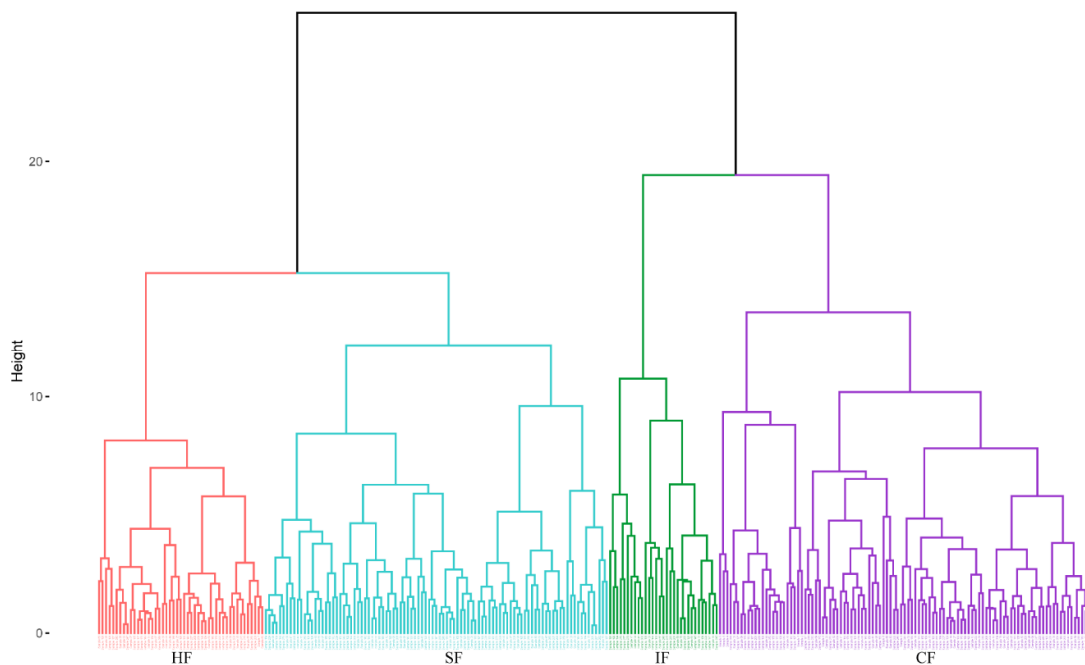


Figure S2. Cluster analysis of fruit quality in 281 orchards. HF (47 samples): high-quality fruit, SF (97 samples): sub-quality fruit, CF (106 samples): Common fruit, and IF (31 samples): inferior fruit.

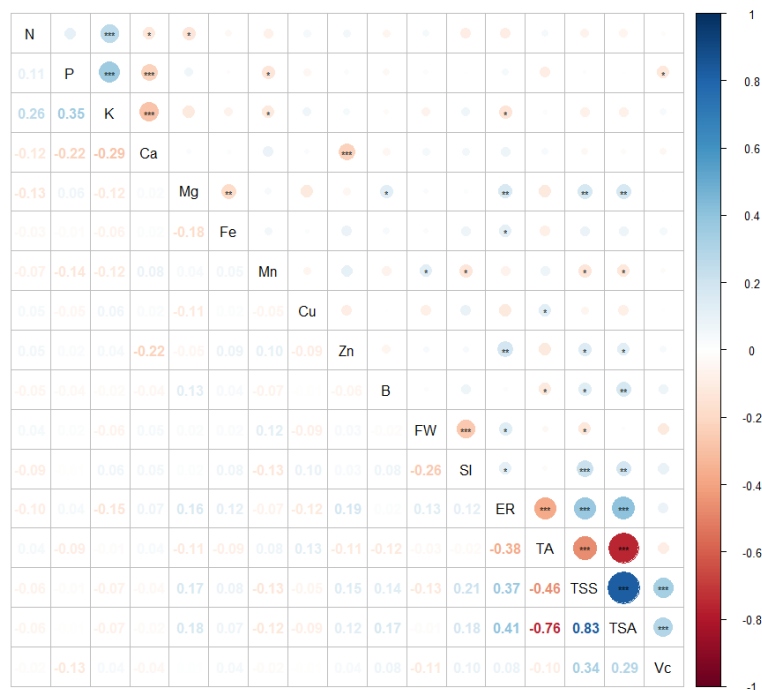


Figure S3. Correlation analysis of leaf nutrients and fruit quality (n = 281). *: p < 0.05, **: p < 0.01, ***: p < 0.001. FW: Single fruit weight; SI: Fruit shape index; ER: Edible rate; TA: Titratable acidity; TSS: Total soluble solids; TSA: Total soluble solids/Titratable acidity; VC: Vitamin C. N: nitrogen, P:

phosphorus, K: potassium, Ca: calcium, Mg: magnesium, Fe: iron, Mn: manganese, Zn: zinc, B: boron.

Table S1. Details the sampling locations in Pinghe County, Fujian Province.

Sample Sites	Longitude	Latitude	Area (km ²)
Jiufeng	116°97′-117°04′	24°22′-24°28′	203.54
Yiling	117°04′-117°11′	24°29′-24°44′	127.99
Banzai	117°24′-117°37′	24°24′-24°34′	133.67
Guoqiang	117°00′-117°26′	24°20′-24°29′	144.09
Luxi	116°96′-117°10′	24°4′7′-24°56′	307.40
Nansheng	117°35′-117°40′	24°17′-24°28′	127.1
Shange	117°19′-117°50′	24°39′-24°48′	117.72
Xiazhai	117°13′-117°40′	24°35′-24°44′	203.9
Xiaoxi	117°17′-117°36′	24°17′-24°40′	137.19
Wenfeng	117°39′-117°48′	24°34′-24°51′	246.1

Note: Data courtesy of the Baidu Encyclopedia.