Supplemental Figure S1. Description of morphological properties description of six mulberry varieties. (**a**) Crown diameter measurement. (**b**) Maximum leaf area measurement. (**c**) Maximum leaf area examination of mulberry tree. Different letters above the bars indicate significant differences at $p < 0.05$ level.

Supplemental Figure S2. Chlorophyll content analysis of six mulberry varieties.

Supplemental Figure S3. Carbon sequestration and oxygen-release capacity analysis of six mulberry varieties from June to August during summer. (**a**) Diurnal assimilation amounts. (**b**) Carbon sequestration per unit leaf area. (**c**) Oxygen release per unit leaf area. (**d**) Carbon sequestration per unit land area. (**e**) Oxygen release per unit land area. Different letters above the bars indicate significant differences at $p < 0.05$ level.