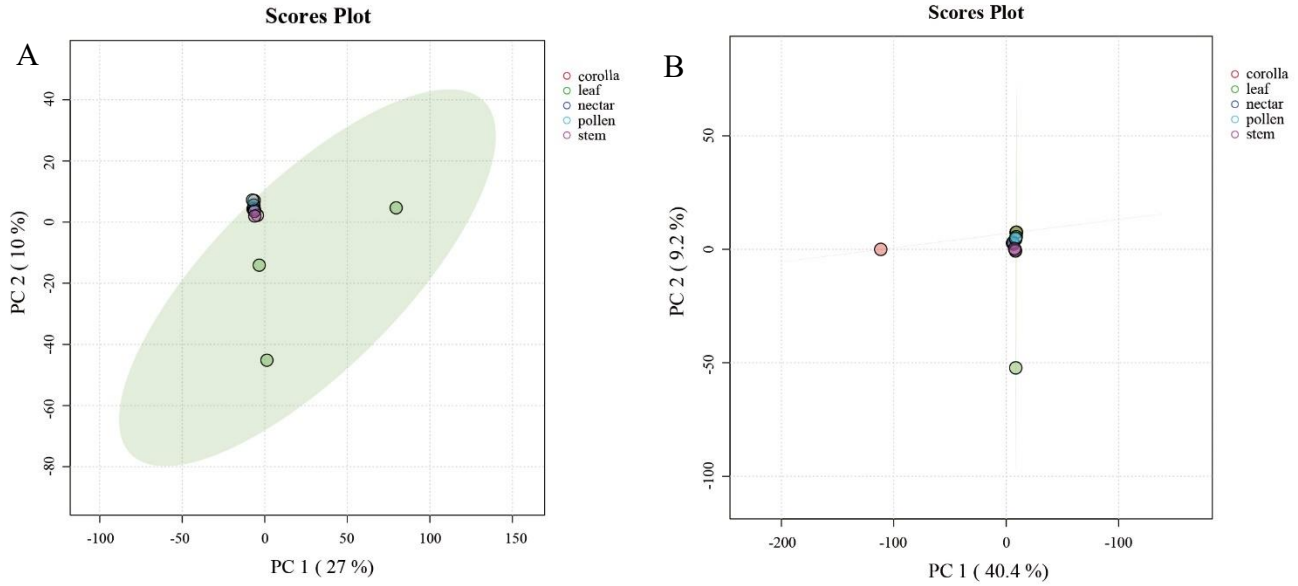
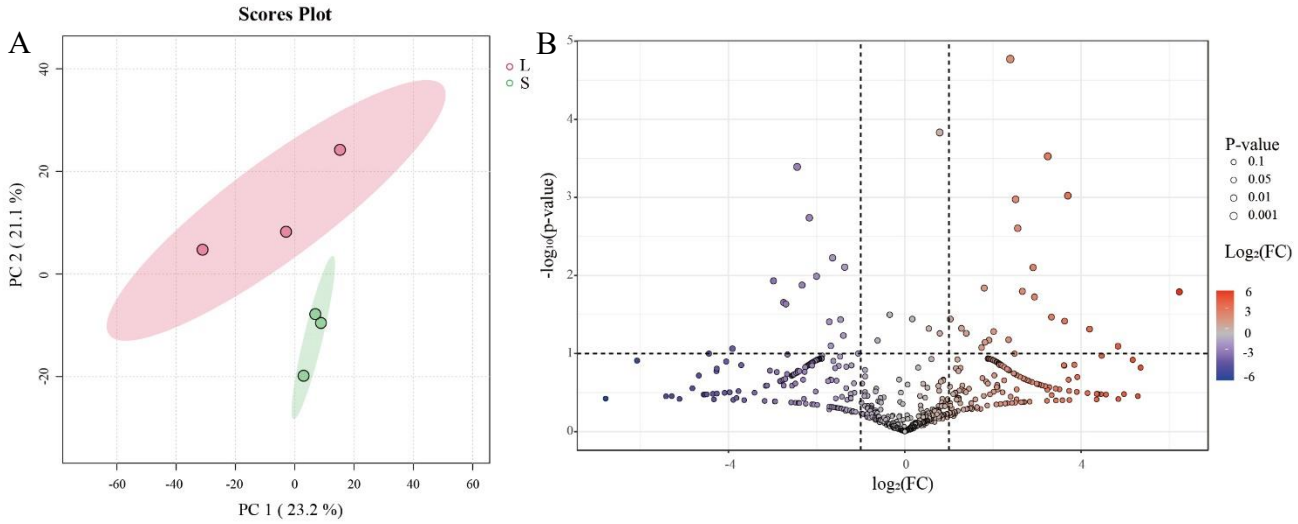
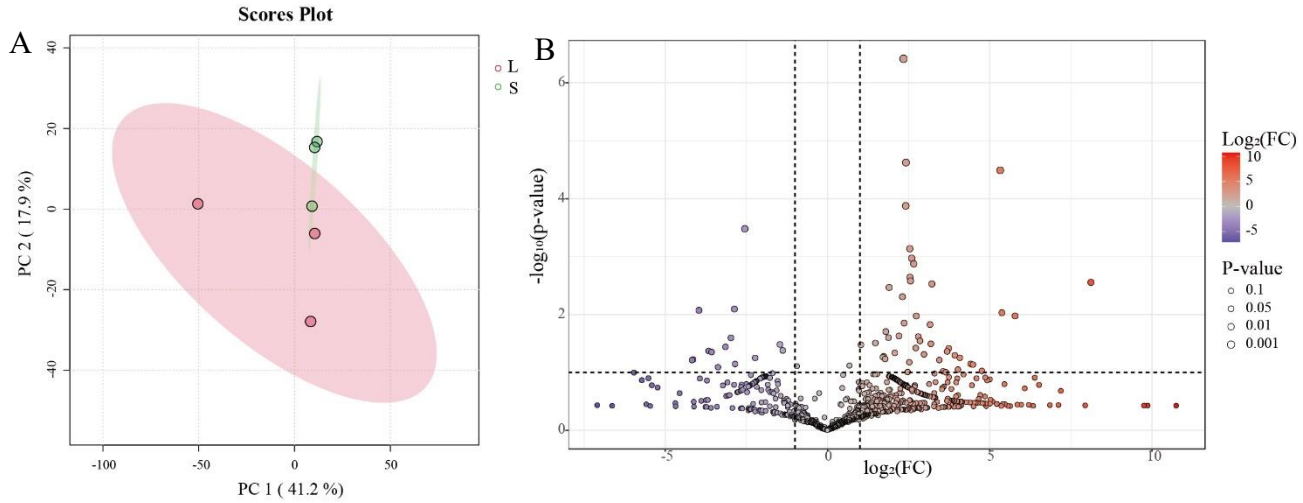
Supplementary Figures



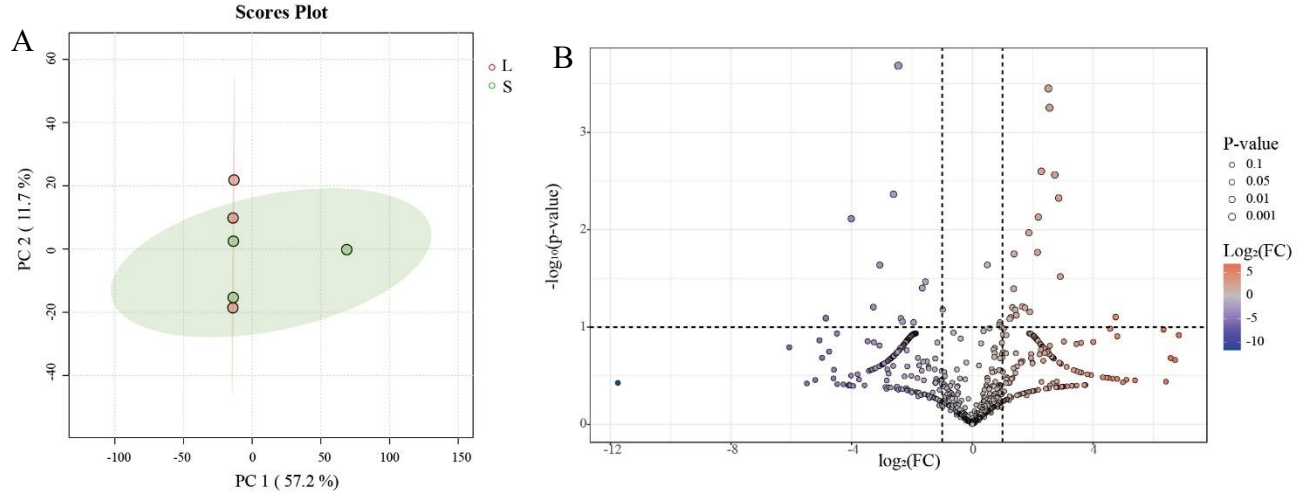
Supplementary Figure 1 Differential analysis of secondary metabolites in different tissues of *O. alatiflora*. (A) PCA analysis of secondary metabolites in different tissues of L-morph plants. (B) PCA analysis of secondary metabolites in different tissues of S-morph plants.



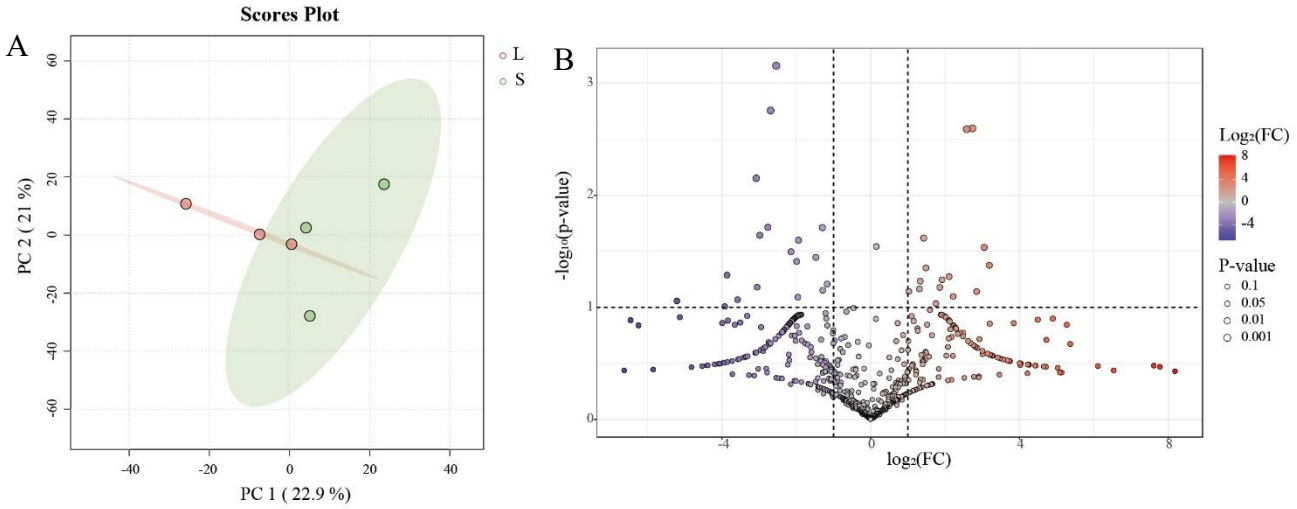
Supplementary Figure 2 Differential analysis of secondary metabolites in stems of different morphs of *O. alatiflora*. (A) PCA analysis of secondary metabolites in stems of different morphs; (B) Volcanic plots of secondary metabolites in stems of different morphs, with purple representing downregulation and red representing upregulation.



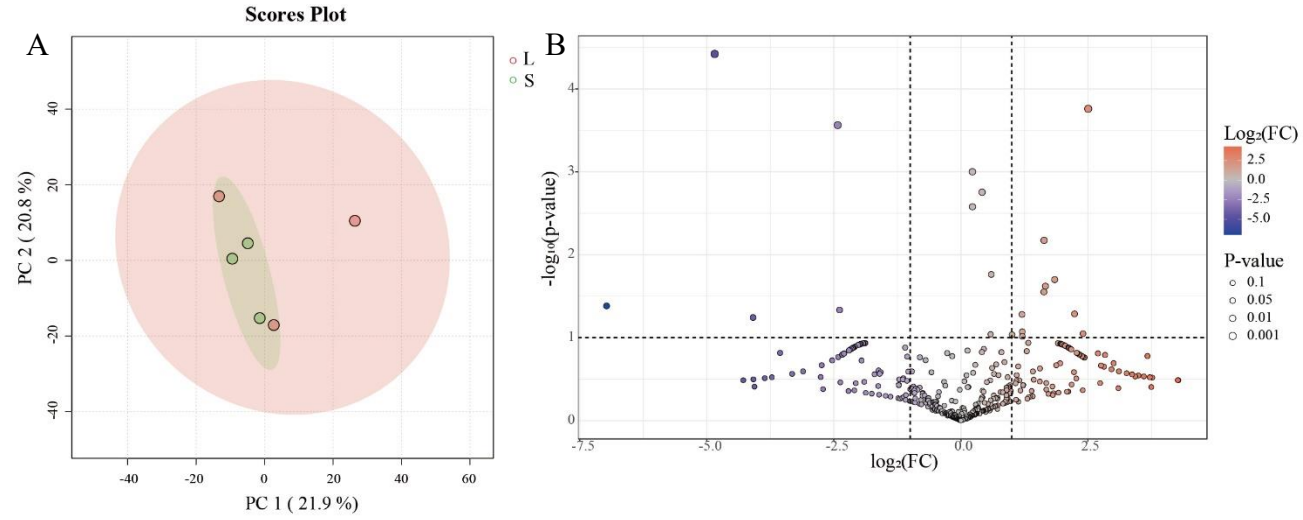
Supplementary Figure 3 Differential analysis of secondary metabolites in leaves of different morphs of *O. alatiflora*. (A) PCA analysis of secondary metabolites in leaves of different morphs; (B) Volcanic plots of secondary metabolites in leaves of different morphs, with purple representing downregulation and red representing upregulation.



Supplementary Figure 4 Differential analysis of secondary metabolites in the corolla of different morphs of *O. alatiflora*. (A) PCA analysis of secondary metabolites in the corolla of different morphs; (B) Volcanic plots of secondary metabolites in the corolla of different morphs, with purple representing downregulation and red representing upregulation.



Supplementary Figure 5 Differential analysis of secondary metabolites in pollen of different morphs of *O. alatiflora*. (A) PCA analysis of secondary metabolites in pollen of different morphs; (B) Volcanic plots of secondary metabolites in pollen of different morphs, with purple representing downregulation and red representing upregulation.



Supplementary Figure 6 Differential analysis of secondary metabolites in the nectar of different morphs of *O. alatiflora*. (A) PCA analysis of secondary metabolites in the nectar of different morphs; (B) Volcanic plots of secondary metabolites in the nectar of different morphs, with purple representing downregulation and red representing upregulation.