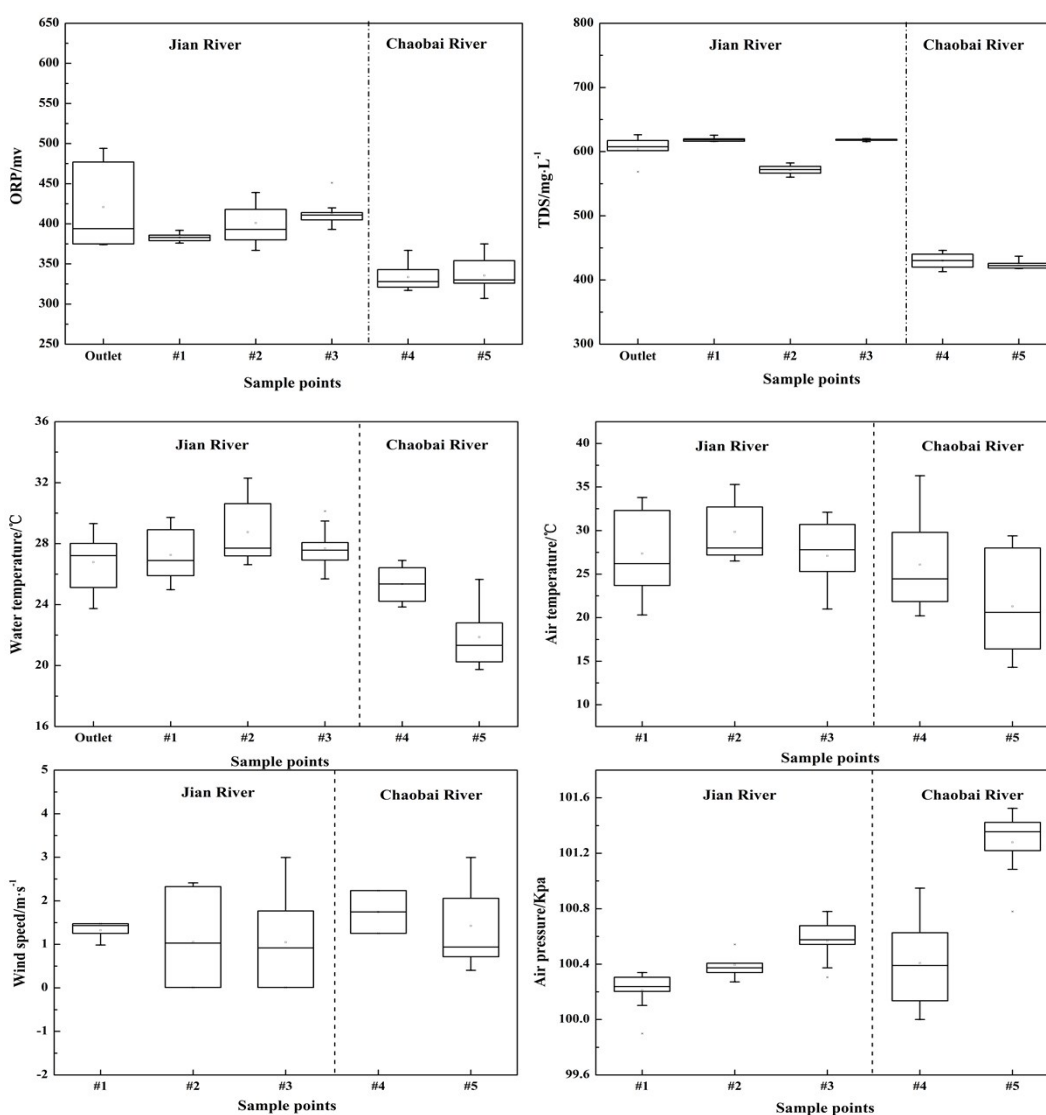


Fig. S1 The sampling device figure of photosynthesis (a) and water-air CO₂ exchange (b)



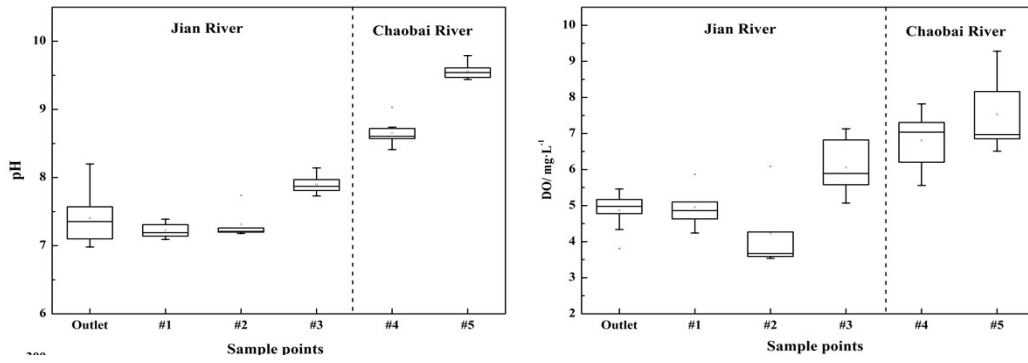


Fig. S2 The conventional water quality indicators and meteorological indicators monitored in the field

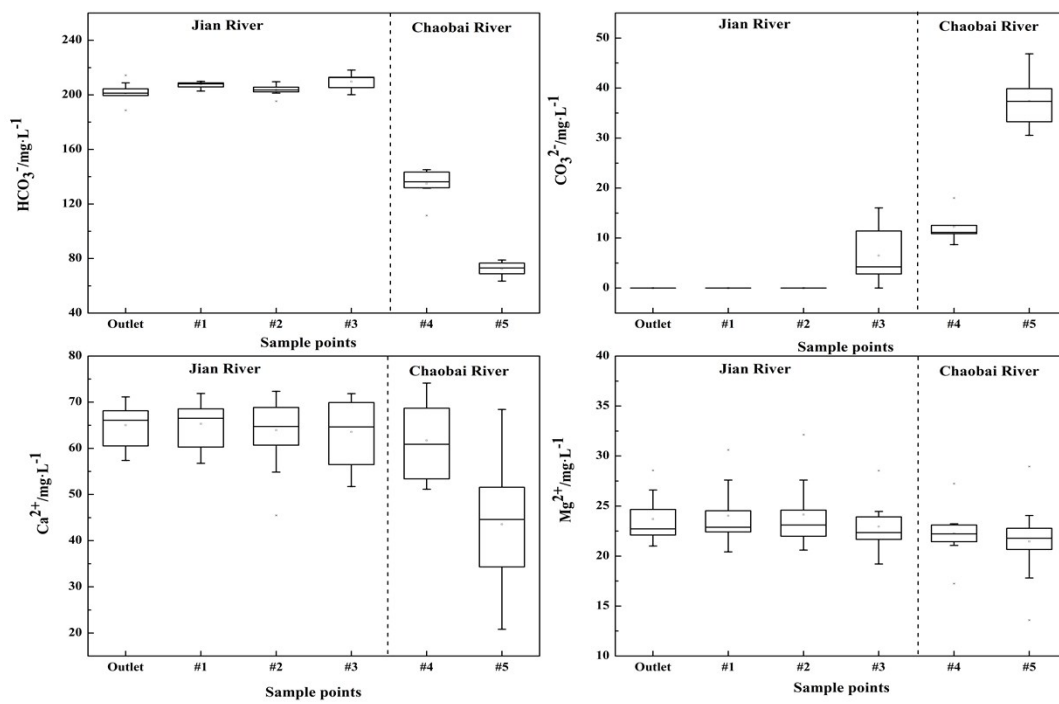


Fig. S3 The inorganic ions indicators in the monitor sections

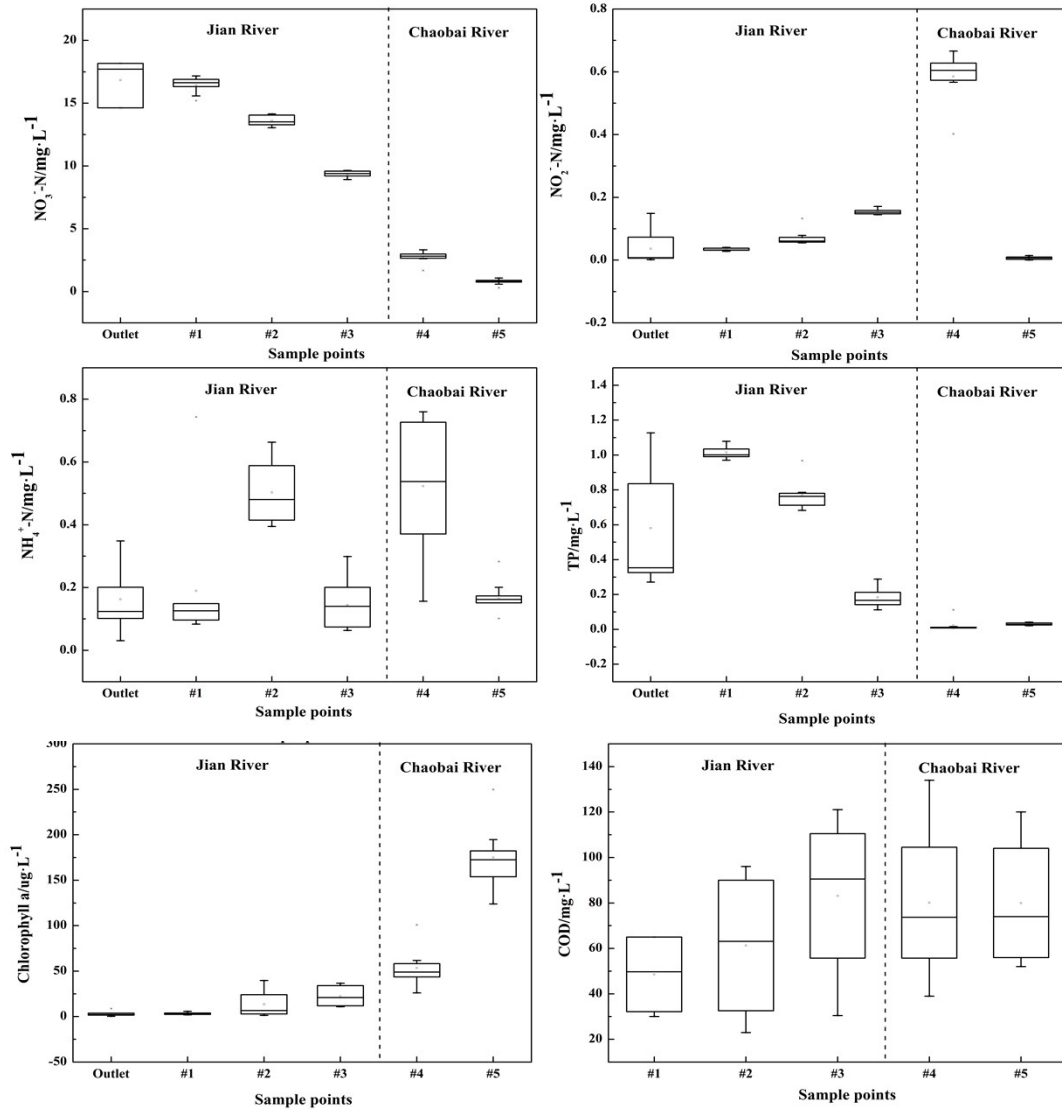


Fig. S4 The nutrition indicators and algae indicators in the monitor sections