

Fig. S2 Relationships between Shannon and biophysiochemical factors in lakes and reservoirs based on generalized additive models (GAM). a Water samples. b Sediment samples. The shadings are at the 95% confidence intervals. In figure (a), the abscissa unit is: T (temperature, °C), TP (total phosphorus, mg/L), NH₄+-N (ammonia nitrogen, mg/L), TN (total nitrogen, mg/L), NO₃--N (nitrate nitrogen, mg/L), DO (dissolved oxygen, mg/L), conductivity (μ S/cm), chlorophylla (μ g/L), and NO₂--N (nitrate nitrogen, mg/L). In figure (b), the abscissa unit is T (temperature, °C), TP (total phosphorus, mg/g), NH₄+-N (ammonia nitrogen, mg/g), TN (total nitrogen, mg/g), NO₃--N (nitrate nitrogen, mg/g), and NO₂--N (nitrate nitrogen, mg/g). *0.01 < p < 0.05, **0.001 < p < 0.01, and ***p < 0.001.