

Electronic Supplementary Material

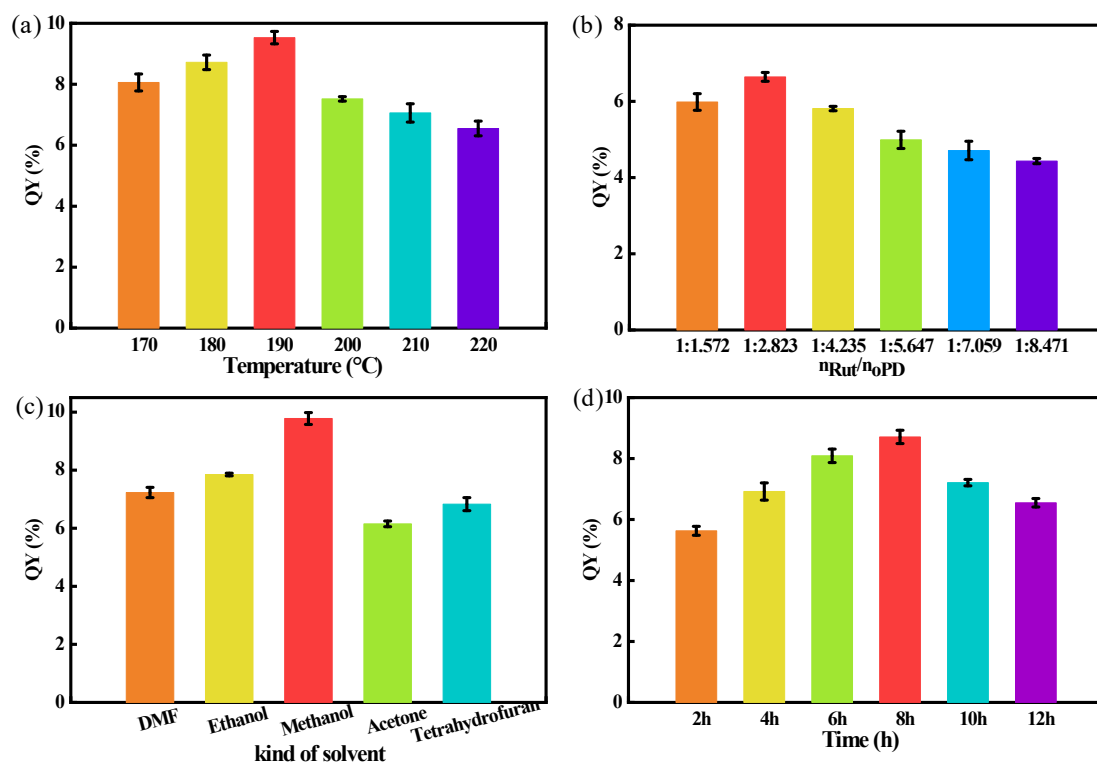


Fig. S1 Optimization of preparation conditions. The QY of Rut-CDs varies in different reaction temperatures(a), proportions of rutimun and oPD (b), reaction solvents (c) and reaction times(d).

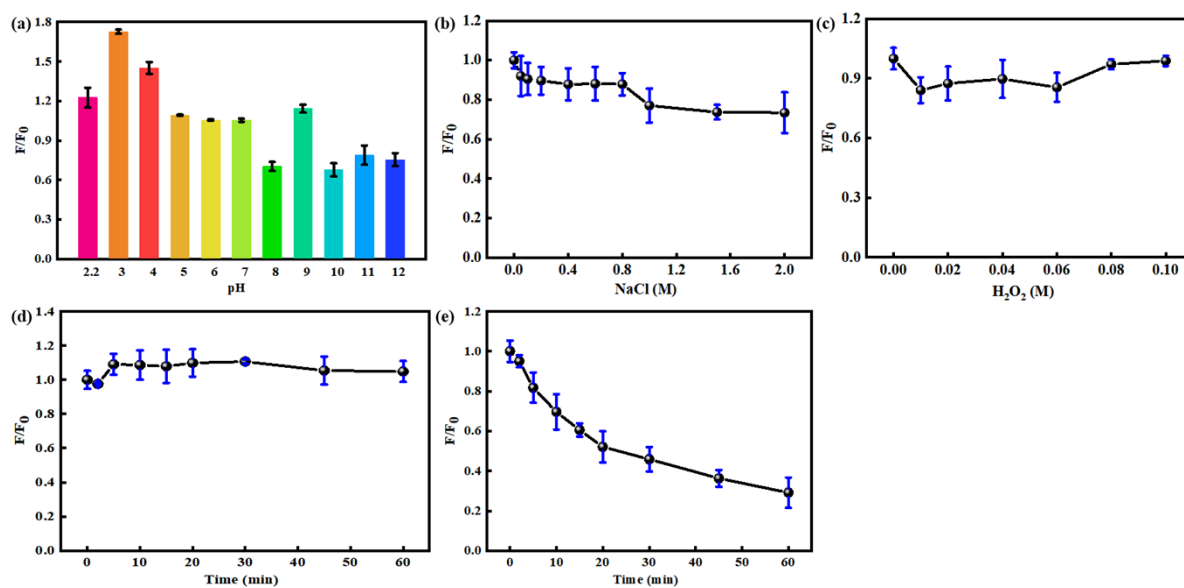


Fig. S2 Fluorescence intensity of Rut-CDs at different pH values from 2.2 to 12 (a), 0-2 M NaCl concentration (b), antioxidant performance (c), and reaction time under natural (d) and UV light (e).

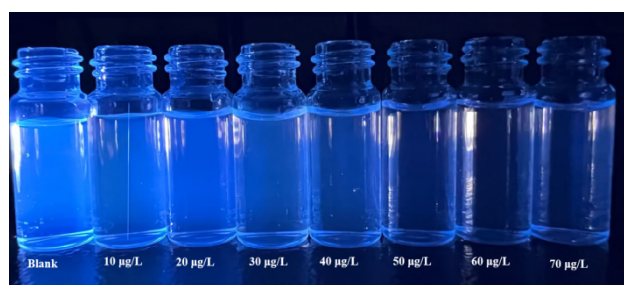


Fig. S3 Fluorescence intensity change of Rut-CDs without or with different concentrations of parathion

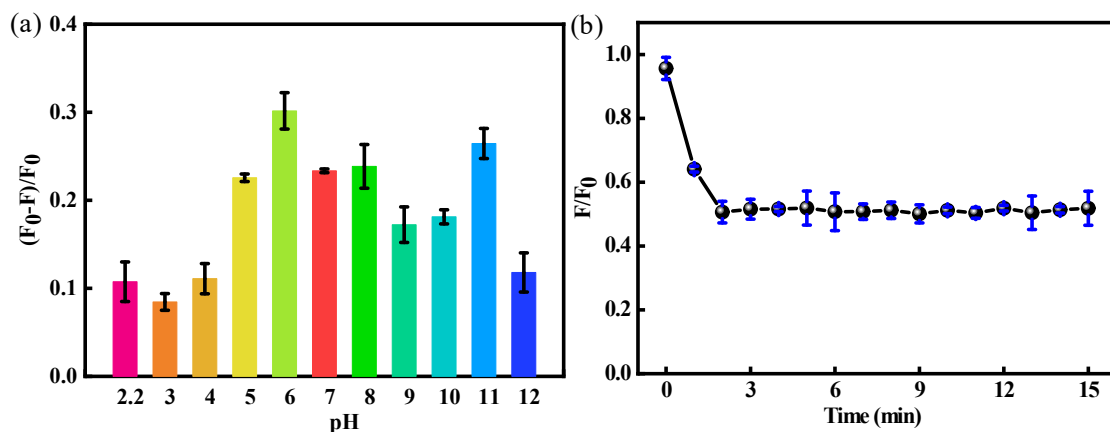


Fig. S4 Fluorescence intensity of Rut-CDs detecting parathion at different pH values from 2.2 to 12 (a), and reaction time (b).

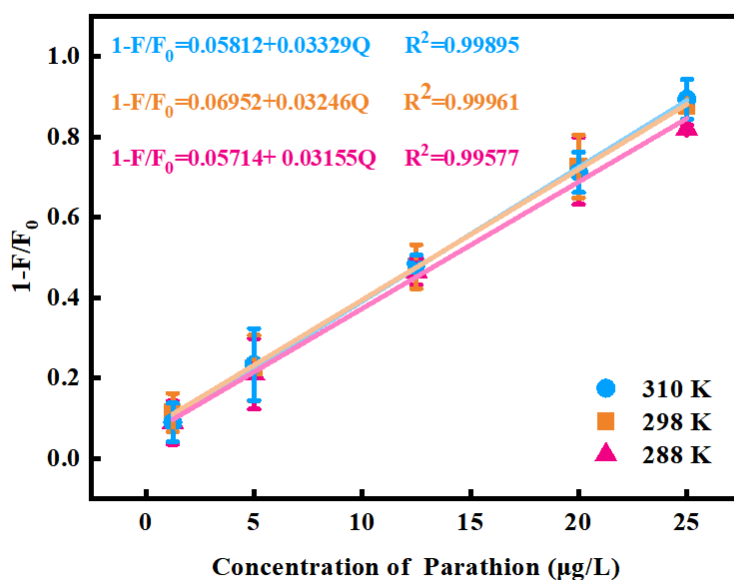


Fig. S5 Stern-Volmer equation of Rut-CDs at different temperatures. F_0 is the PL intensity of the purified Rut-CDs, and F is the PL intensity of Rut-CDs after addition of parathion.