

Supplementary materials

Introduction of a new and safe synthesis procedure for Ni-MOF-I in aqueous solution and its application for the extraction of some pesticides from different beverages

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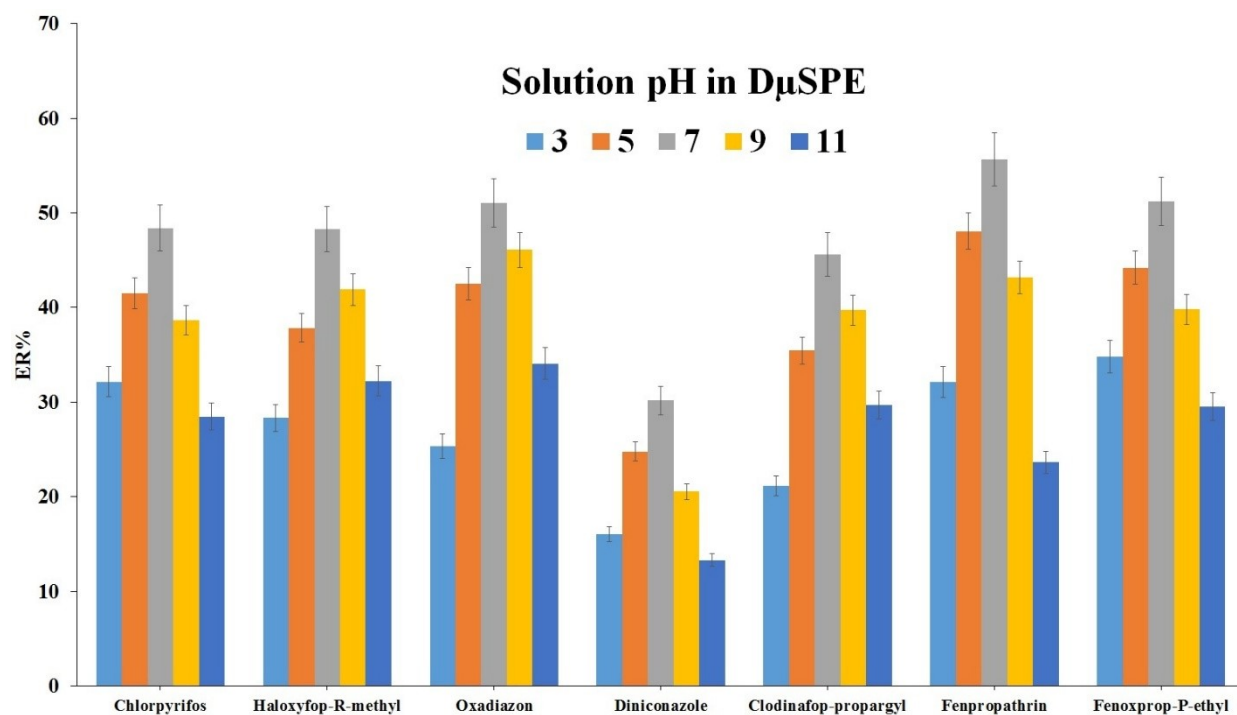


Fig. S1. Study of pH in DμSPE.

Extraction conditions: DμSPE procedure: aqueous solution, 5 mL deionized water containing 1.5 mol L⁻¹ Na₂SO₄ spiked with 150 μg L⁻¹ of each analyte without pH adjustment; vortex time in adsorption step, 5 min; desorption solvent (volume), ACN (1.0 mL); vortex time in desorption step, 5 min; and centrifugation speed and time, 6000 rpm and 5 min, respectively. DLLME procedure: aqueous phase, 5 mL deionized water without pH adjustment and salt addition; extraction solvent (volume), 1,2-DBE (28 μL); centrifugation rate, 6000 rpm; and centrifugation time, 5 min. The error bars show the minimum and maximum of three repeated determinations.

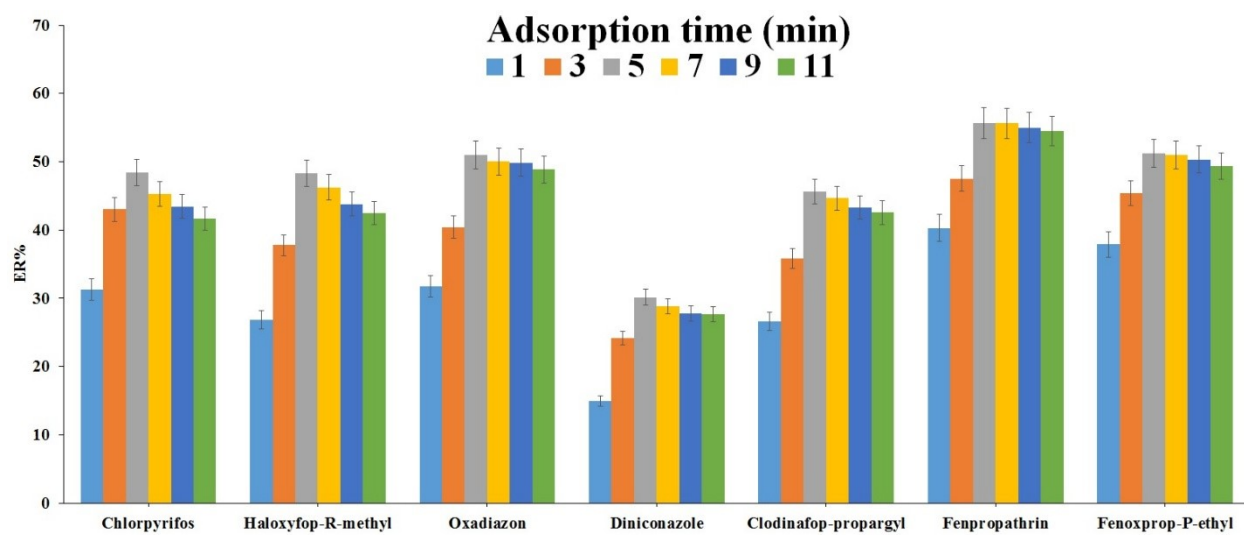


Fig. S2. Study of adsorption time.

Extraction conditions: are the same as those used in Fig. S1, without pH adjustment.

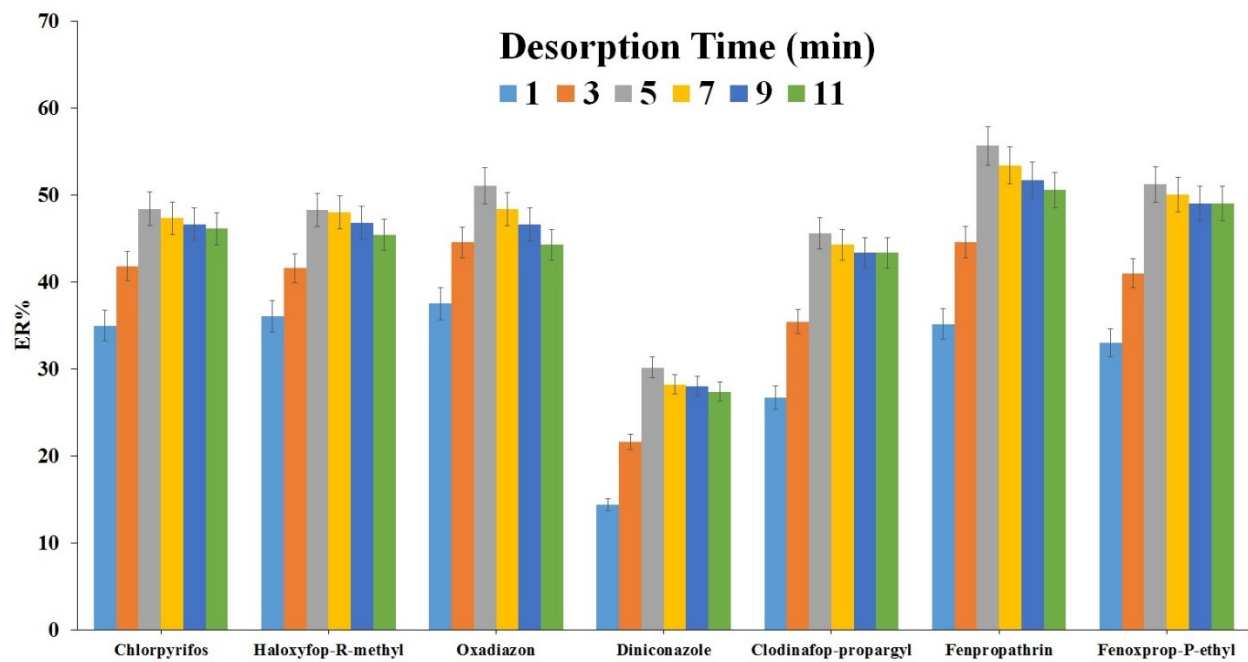


Fig. S3. Study of desorption time.

Extraction conditions: are the same as those used in Fig. S2, except 5 min was used as the adsorption time.

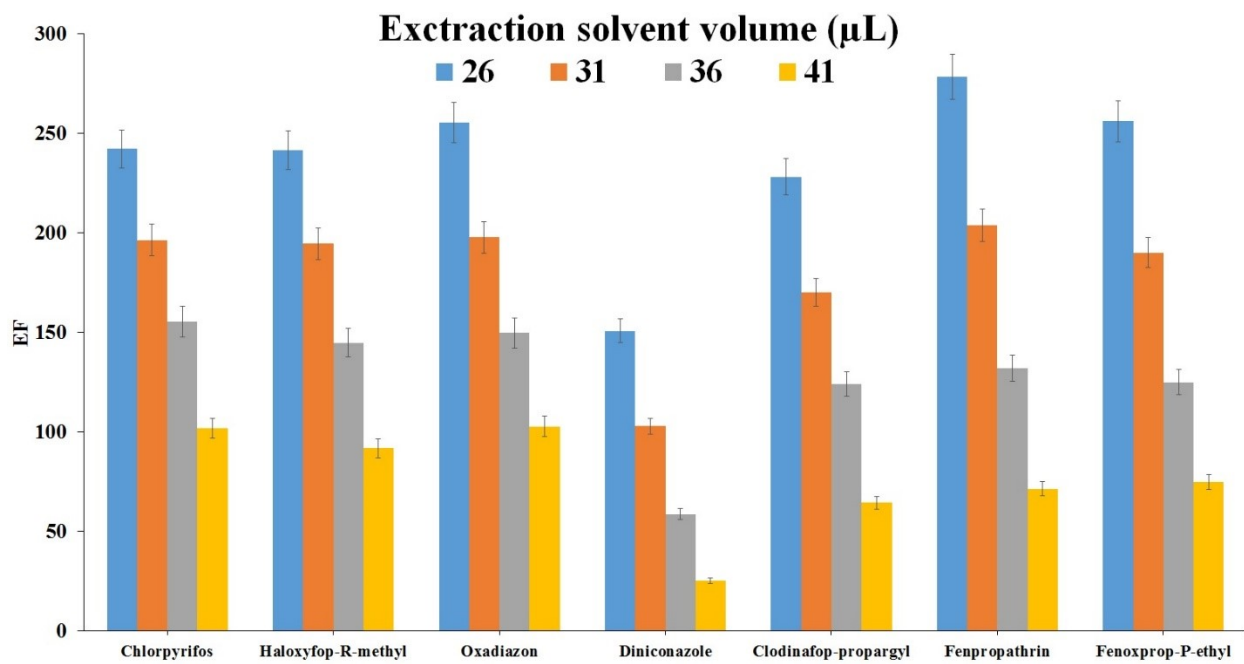


Fig. S4. Study of extraction solvent volume.

Extraction conditions: are the same as those used in Fig. S3, except 1,2-DBE and 5 min were used as the extraction solvent and desorption time, respectively.

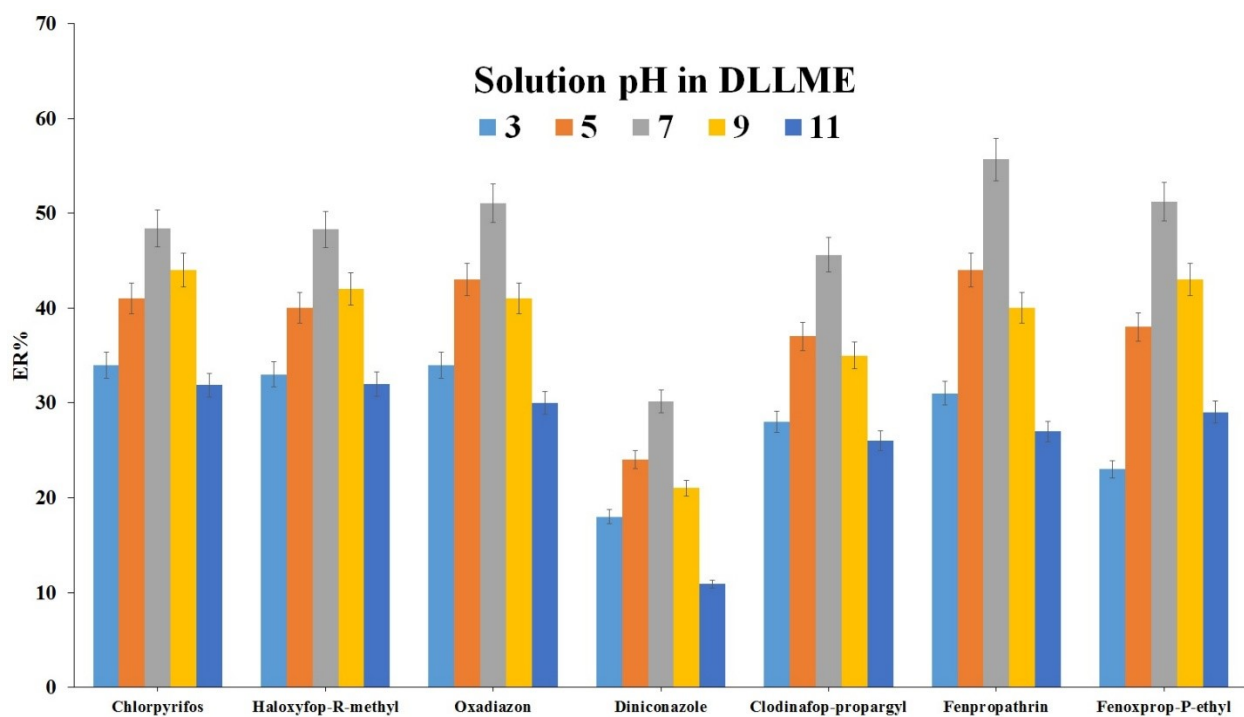


Fig. S5. Study of pH in DLLME.

Extraction conditions: are the same as those used in Fig. S4, except 26 μ L 1,2-DBE was used as the extraction solvent.

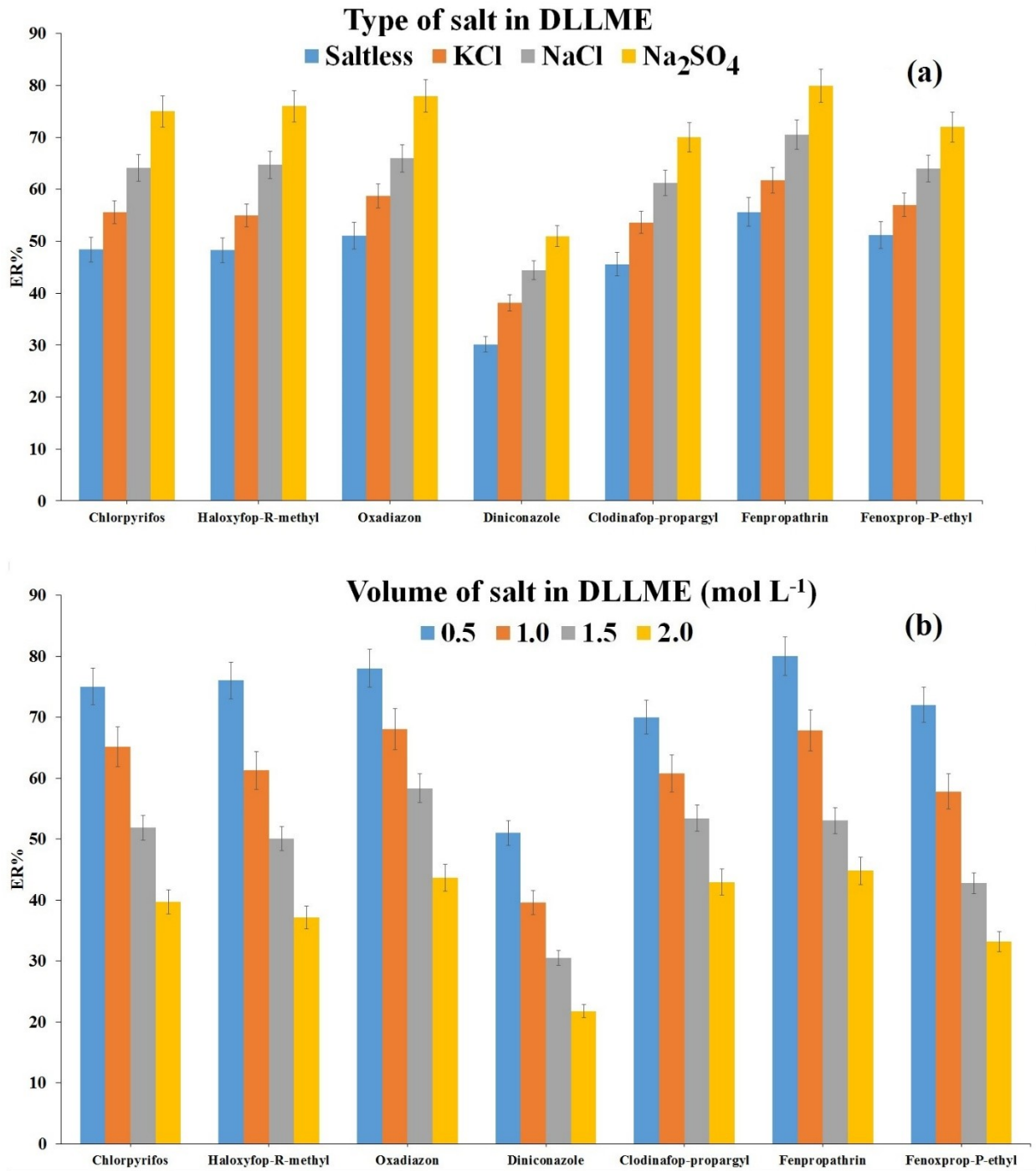


Fig. S6. impact of ionic strength in DLLME

Extraction conditions: are the same as those used in Fig. S5, except pH adjustment was not done in DLLME.