

1 **Supplementary Material**

2 **Facile fabrication of tunable porous zirconium fumarate based metal organic frameworks**
3 **in the retention of nutrients from water**

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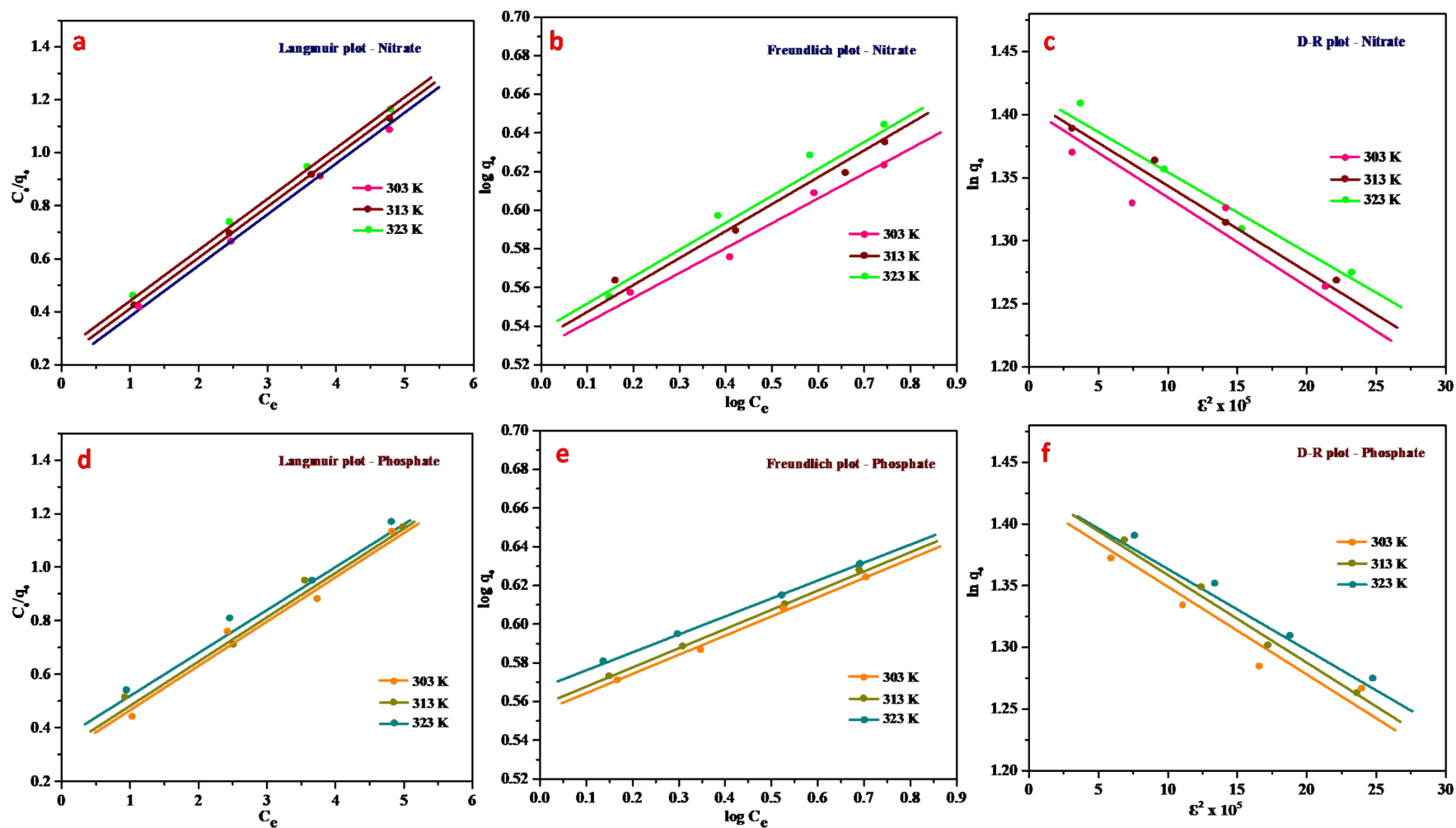
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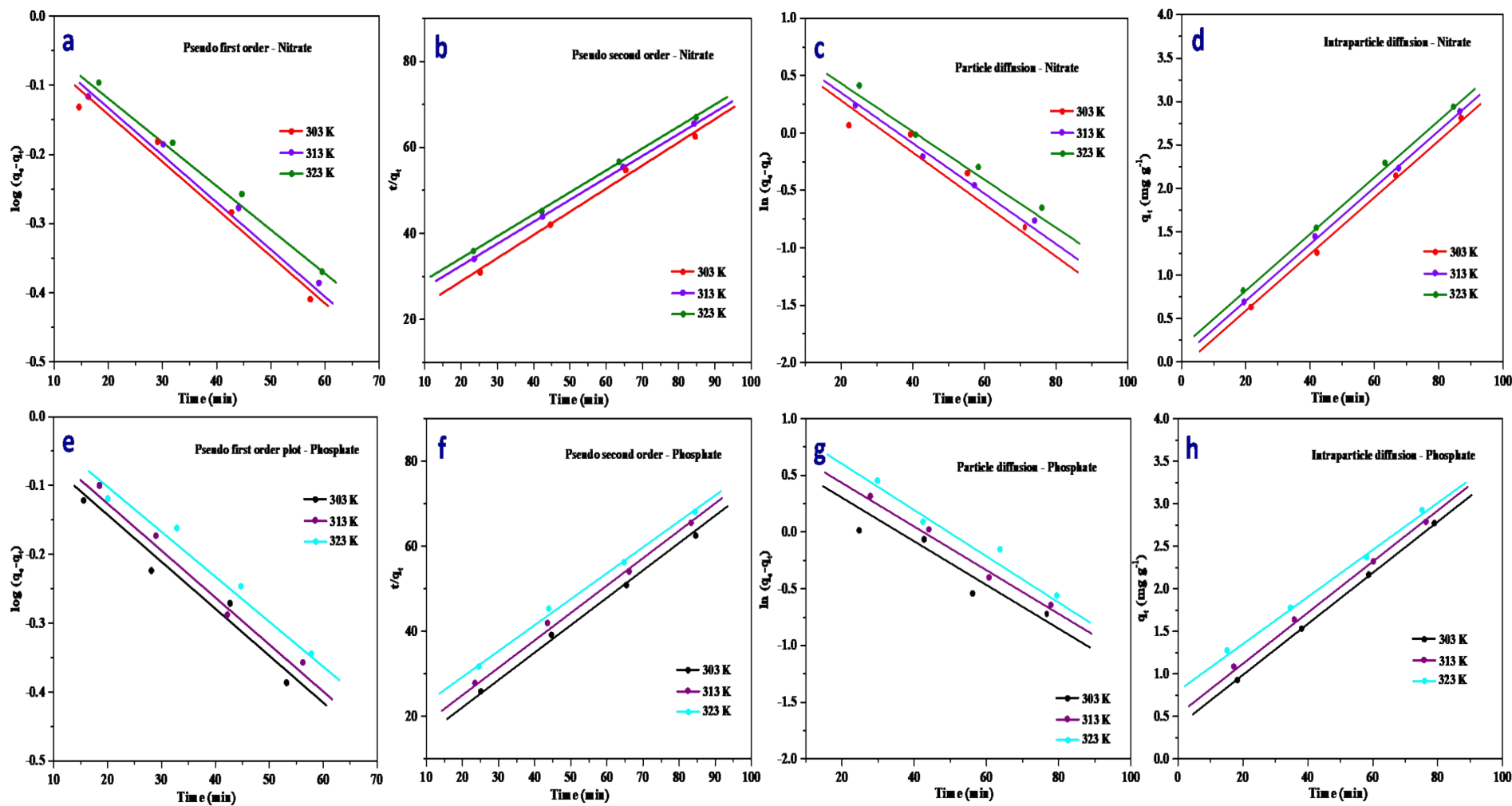
25 3.6 Adsorption isotherms of Zr@Fu MOF composite



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27 **Fig. S1** Isotherm linear plots of (a, d) Langmuir, (b, e) Freundlich and (c, f) D-R isotherms of Zr@Fu MOF composite on NO_3^- and PO_4^{3-}
 28 adsorption respectively at 303, 313 and 323 K.

29 3.8 Kinetic studies of Zr@Fu MOF composite



30 Fig. S2 Kinetic linear plots of (a, e) pseudo first order, (b, f) pseudo second order, (c, g) particle diffusion and (d, h) intraparticle
 31 diffusion kinetic models of Zr@Fu MOF composite on NO_3^- and PO_4^{3-} adsorption respectively at 303, 313 and 323 K.