**Supplementary Material**

**Micro-encapsulation and hydrothermal tuning of amine decorated magnetic alginate hybrid beads for nitrate and phosphate remediation**

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**Fig. S1.** Experimentally measured isotherms for NO3- adsorption by Zr@AlgKN composite beads (Hydro) from 80 to 140 mg/L at 303 K.

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**Fig. S2.** Experimentally measured isotherms for PO43- adsorption by Zr@AlgKN composite beads (Hydro) from 80 to 140 mg/L at 303 K.

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**Fig. S3.** Regeneration of in situ and hydro supportedZr@AlgKN composite beads toward NO3- and PO43- removal.