

## Supplementary material

### Fast start-up of one-stage partial nitritation/anammox by reducing oxygen concentration without inoculum addition

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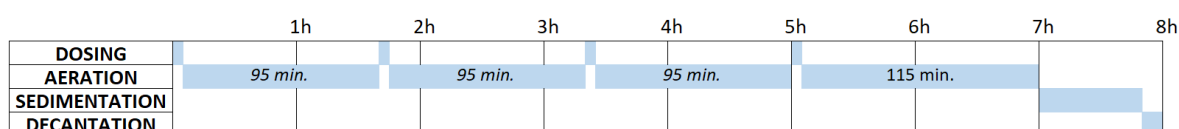
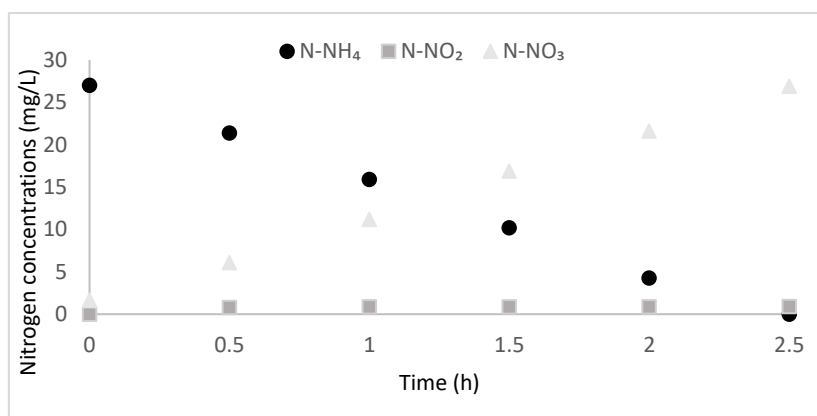


Figure S1. The MBSBBR complete cycle duration.

(a) AUR



(b) NUR

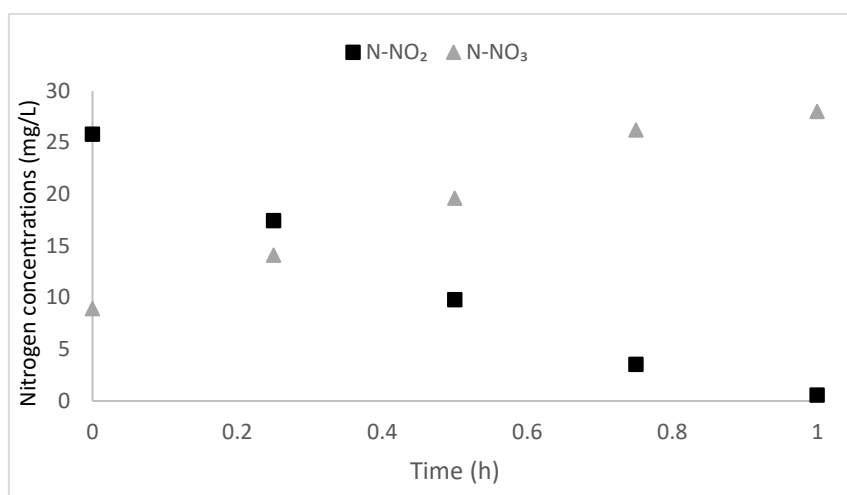
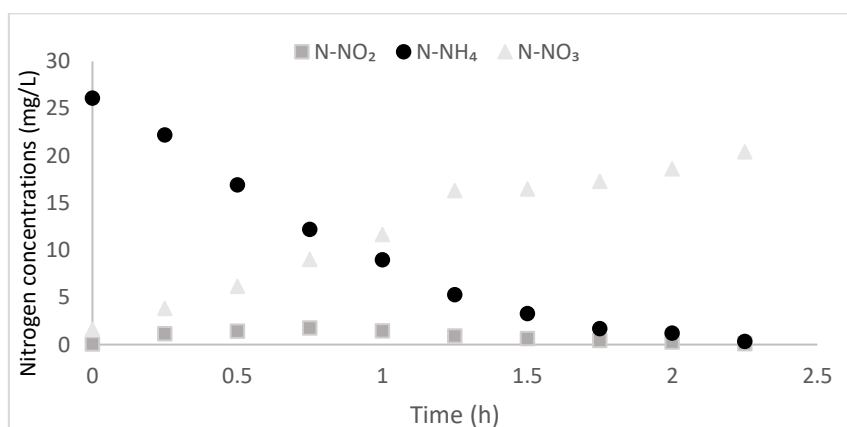
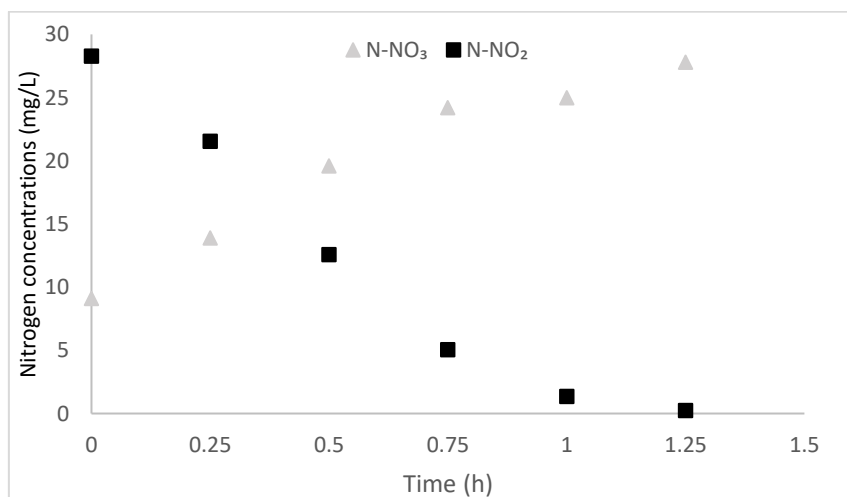


Figure S2. Batch test results during Stage I: (a) AUR, (b) NUR.

(a) AUR



(b) NUR



(c) SAA

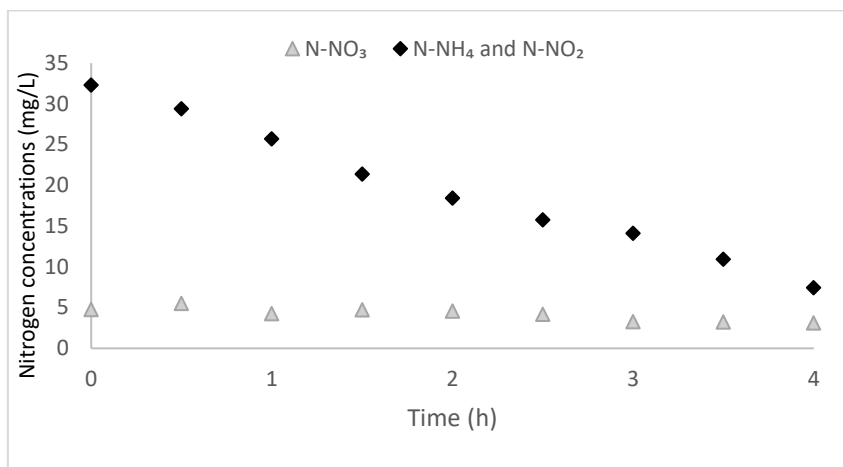
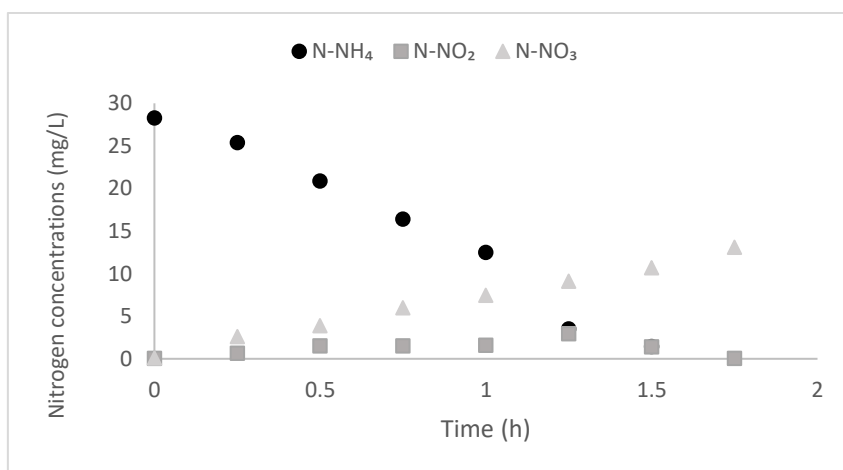
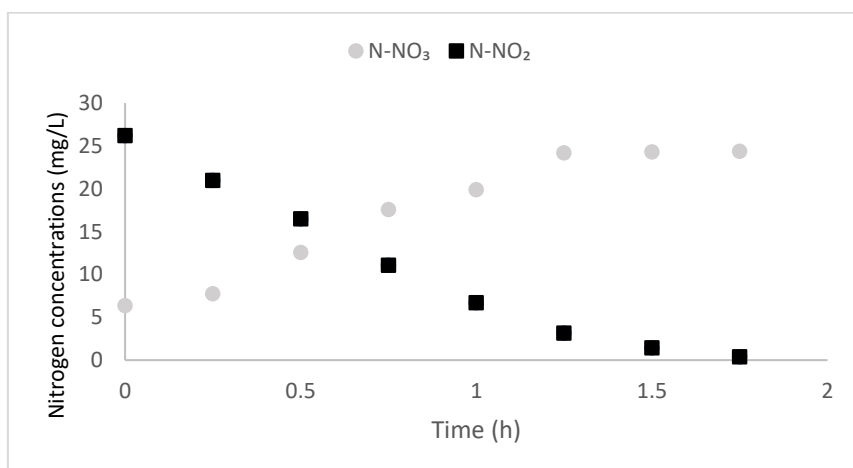


Figure S3. Batch test results during Stage II: (a) AUR, (b) NUR, (c) SAA.

(a) AUR



(b) NUR



(c) SAA

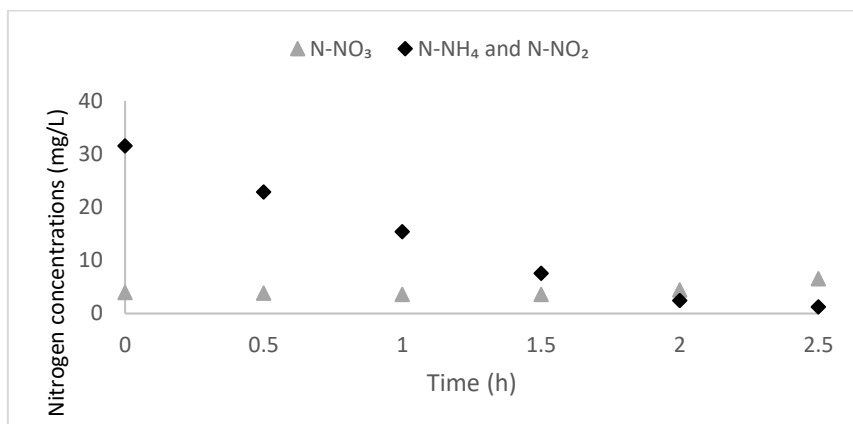


Figure S4. Batch test results during Stage III: (a) AUR, (b) NUR, (c) SAA.