

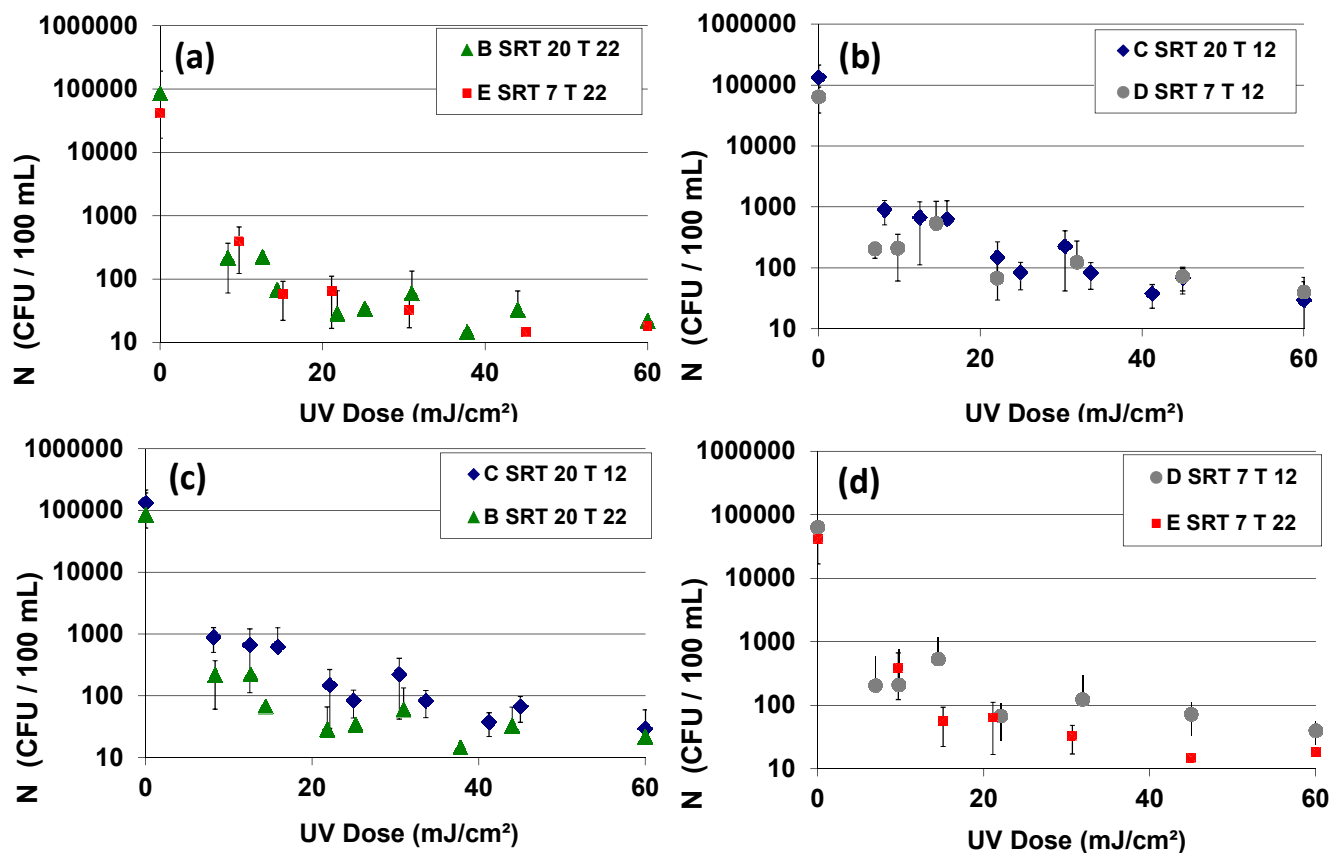


Figure S1. The UV DRCs of treated effluents based on actual CFU / 100 mL. (a) the effect of SRT at high T, (b) the effect of SRT at low T, (c) the effect of T at high SRT, (d) the effect of T at low SRT

Table S1. The micronutrients used in the synthetic feed used for the small reactors

Micronutrient	Concentration (mg/L)
MgSO ₄ ·7H ₂ O	5.07 (0.5 Mg)
CaCl ₂ ·2H ₂ O	2.0 (0.5 Ca)
Na ₂ MoO ₄ ·2H ₂ O	0.01 (0.004 Mo)
Fe (III). EDTA	3 (0.5 Fe)
MnCl ₂ ·4H ₂ O	0.36 (0.1 Mn)
FeSO ₄ ·7H ₂ O	0.5 (0.1 Fe)
CuSO ₄ ·5H ₂ O	0.39 (0.1 Cu)
ZnSO ₄ ·7H ₂ O	0.44 (0.1 Zn)
CoCl ₂ ·6H ₂ O	0.41 (0.1 Co)

Table S2. Performance parameters of the SBR system over the period of stable operating conditions. MLSS: mixed liquor suspended solids, VSS: volatile suspended solids, SVI: sludge volume index.

Reactor	MLSS (g/L)	VSS (g/L)	SVI (mL/g)	Influent COD (mg/L)	Effluent COD (mg/L)	Influent NH ₃ -N (mg/L)	Effluent NH ₃ -N (mg/L)
C (SRT20T12)	2.5 ± 0.5	2.1 ± 0.4	100 ± 30	191 ± 85	32 ± 16	22 ± 6	5.5 ± 5
D (SRT7T12)	2.0 ± .04	1.6 ± 0.3	91 ± 46	191 ± 85	38 ± 22	23 ± 6	15 ± 6
B (SRT20T22)	2.0 ± 0.6	1.7 ± 0.6	83 ± 18	191 ± 85	28 ± 12	24 ± 6	5 ± 5
E (SRT7T22)	1.5 ± 0.4	1.3 ± 0.3	98 ± 30	191 ± 85	34 ± 16	25 ± 6	3 ± 3
P-Normal	3.2 ± 0.6	3.1 ± 0.6	93 ± 25	500	22 ± 9	28	20 ± 6
P-Limited	3.8 ± 0.5	3.7 ± 0.6	103 ± 23	500	20 ± 6	28	18 ± 9
P-Starved	1.7 ± 0.5	1.5 ± 0.6	128 ± 20	500	35 ± 19	28	19 ± 8