

Table S1 Experimental plan

Reactors	Concentration (mg L ⁻¹)			
	Zn(II)	Cu(II)	Cr(VI)	DCF
S0*	0	0	0	0
S1	3	0	0	30
S2	0	3	0	0
S3	0	0	3	0
S4	0	0	0	0
S5	3	0	0	30
S6	0	3	0	0
S7	0	0	3	0

*: Seeding sludge