

Toxicity of Zn-Fe Layered Double Hydroxide to Different Organisms in the Aquatic Environment

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Table S1. Summary of toxicity test procedures used in this study.

Test Organism	Taxonomy/ Trophic Level	Concentration Range (g/L)	Exposure Time	EC ₅₀ (g/L)	Toxicity Endpoint	Test Protocol
<i>V. fischeri</i>	Photobacteria/ decomposer	0.05-2.00	15 min	0.31±0.03 ^a 1.20±0.12 ^b	Bioluminescence inhibition	ISO 11348-3
			30 min	0.11±0.01 ^a 0.32±0.03 ^b		
<i>P. subcapitata</i>	Freshwater algae/ producer	0.10-2.00	72 h	< 0.1 ^c	Growth inhibition	ISO 8692
<i>D. magna</i>	Cladoceran/ consumer	0.05-2.00	24 h	0.17±0.02	Death or immobilization	OECD 202
			48 h	0.10±0.01		
<i>S. polyrhiza</i>	Aquatic plant/ producer	0.075-2.00	72 h	0.81±0.19	Growth inhibition	ISO 20227

^aPreparation time for the catalyst was 1 h; ^bPreparation time for the catalyst was 3 h; ^cComplete inhibition was observed at all tested catalyst concentrations.

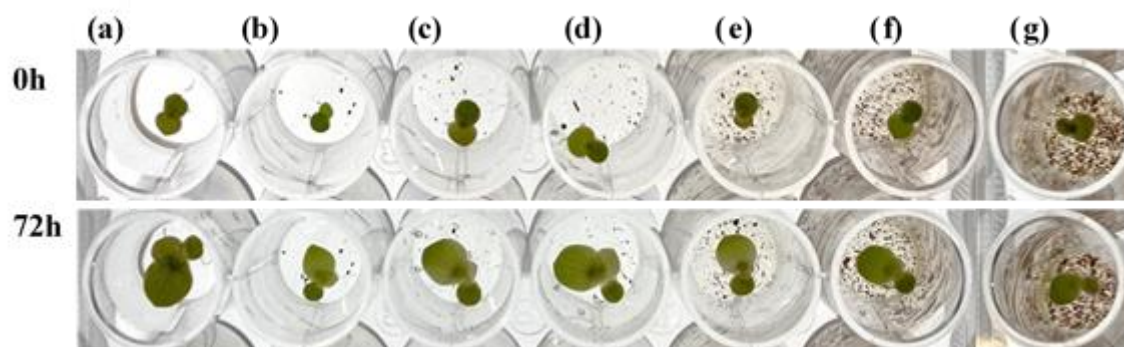


Figure 1. Changes in the fronds of *S. polyrhiza* exposed to the different concentrations of Zn-Fe LDH. The figure shows fronds for test control (a), 0.05 g/L (b), 0.075 g/L (c), 0.10 g/L (d), 0.50 g/L (e), 1.00 g/L (f), and 2.00 g/L (g) Zn-Fe LDH exposure.