Electronic Supplementary Material (ESI) for Analyst.

Table S1 Microalgal motility characteristics calculated by the ImageJ plugin

Percent motile cells of total cells (MOT %)	Percent of tracked microalgae identified by the plugin as exhibiting motility during the period of analysis
Curvilinear velocity (VCL)	The total point to point distance traveled by the microalga over the time period analyzed averaged to a per second value
Average path velocity (VAP)	Velocity over an average path, generated by a roaming average of microalgal position from one-sixth of the video's frame rate, such that each point is generated by averaging the coordinates of a set number of locations on the VCL path (using 25 fps, the location of a sperm in 4 frames are averaged to generate one VAP point and the first VAP point represents frames 1–4, the second point frame 2–5); averaged to a per second value
Straight line velocity (VSL)	The maximum distance moved on the VAP path by the microalga from the first VAP point during in the video segment analyzed, calculated to a per second value based on the number of frames for which VAP points were calculated

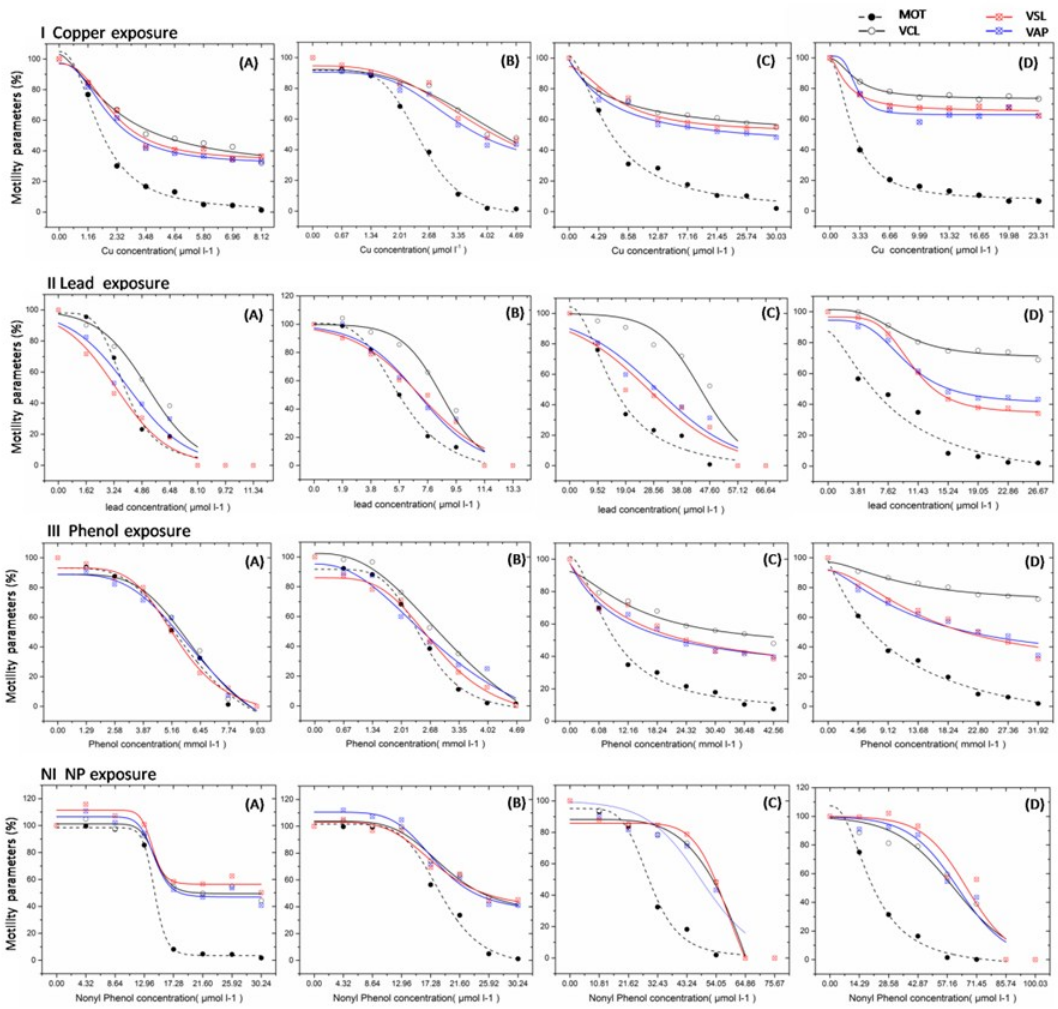

Fig. S1. Two-hour motility inhibition curves exposed to different measured concentrations of I. Copper, II. Lead, III. Phenol and IN. NP for the four marine microalgae (A) *P. subcordiformis*; (B) *P. helgolandica var. tsingtaoensis*; (C) *I. galbana* and (D) *I. zhanjiangensis sp.nov*;