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3 **Characterisation of fine-grained tailings from a marble processing**  
4 **plant and their acute effects on the copepod *Calanus finmarchicus***  
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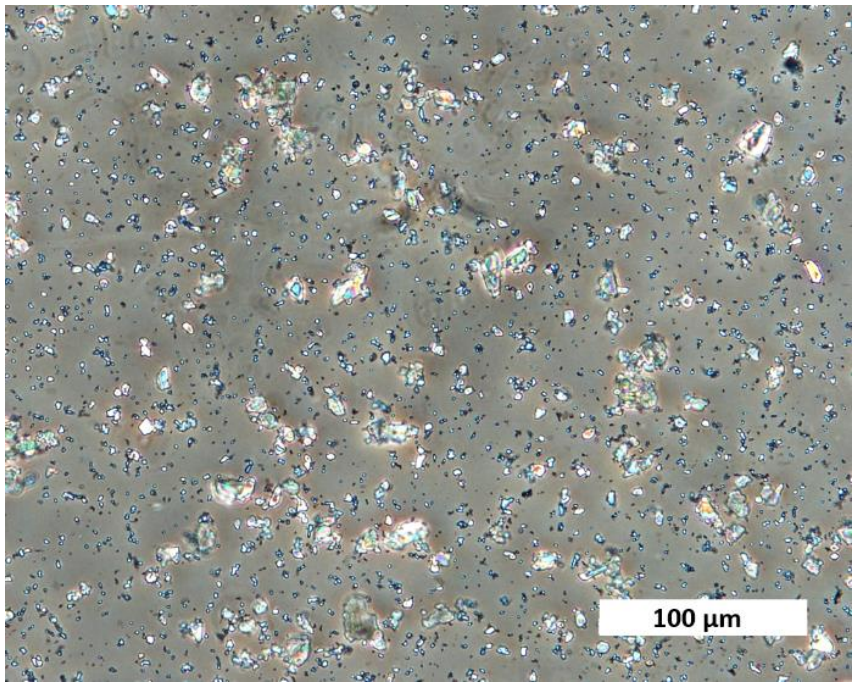


Figure S1. Microscopic image of CaCO<sub>3</sub> FGT dispersed in filtered seawater. Scale bar: 100 μm.

46 Table S1. Total particle number (mg mL<sup>-1</sup>) and particle mass (mg L<sup>-1</sup>) in the size range 2 - 60  
 47 µm in acute toxicity experiments. Immobilization of copepods, pH and oxygen concentration  
 48 determined after 96 h.

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At start of exposure			At end of exposure (96 hours)		
g L <sup>-1</sup>	total particles mL <sup>-1</sup> 2.4 - 60.0 µm	particle mass mg L <sup>-1</sup> 2.4 - 60.0 µm	% immobilization	pH	mg L <sup>-1</sup> O <sub>2</sub>
0.23	596,550	133.5	0.0	8.00	8.11
0.38	939,950	134.0	0.0	8.00	7.96
0.64	1,737,000	245.0	0.0	8.00	8.05
1.07	2,970,800	458.0	0.0	7.97	7.74
1.79	5,043,200	876.0	0.0	7.96	7.68
2.99	9,169,600	1,456	0.0	7.95	7.29
4.99	14,054,400	2,076	0.0	7.94	7.03
Neg. Ctrl	NA	NA	0.0	8.01	8.28
Pos. Ctrl	NA	NA	52.4	8.00	8.28

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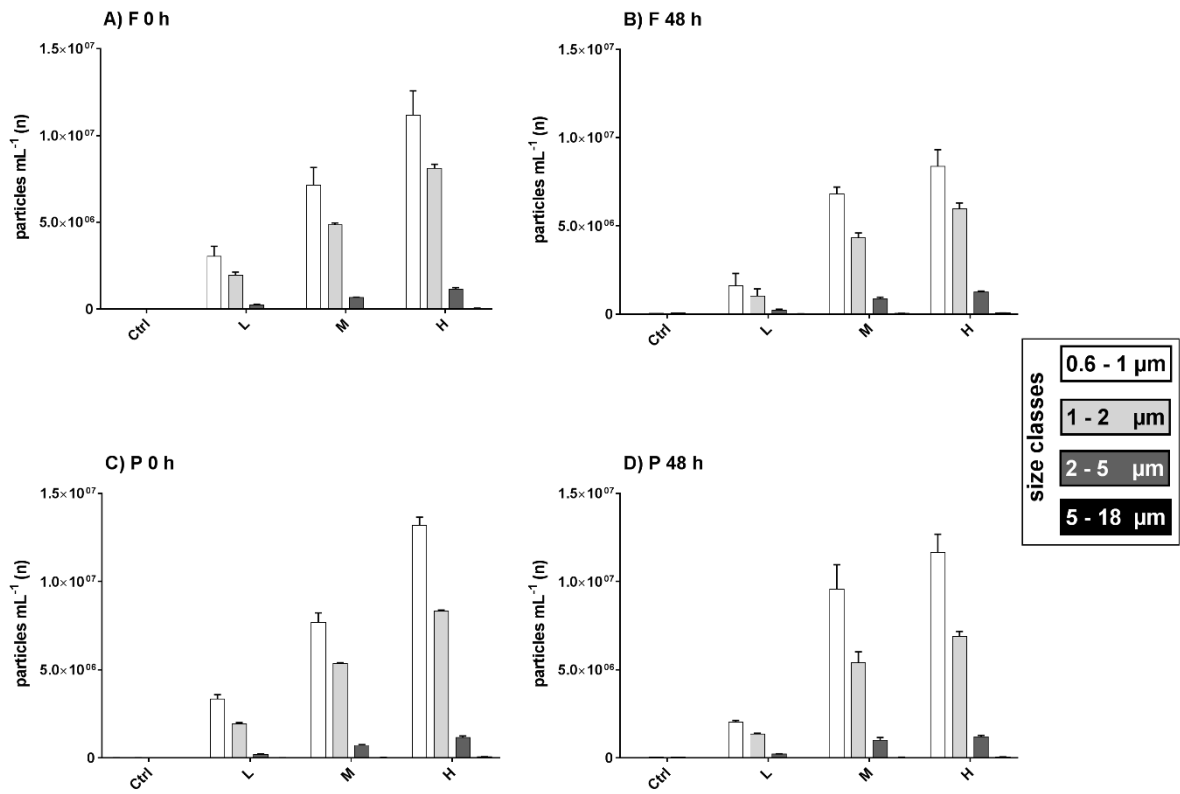
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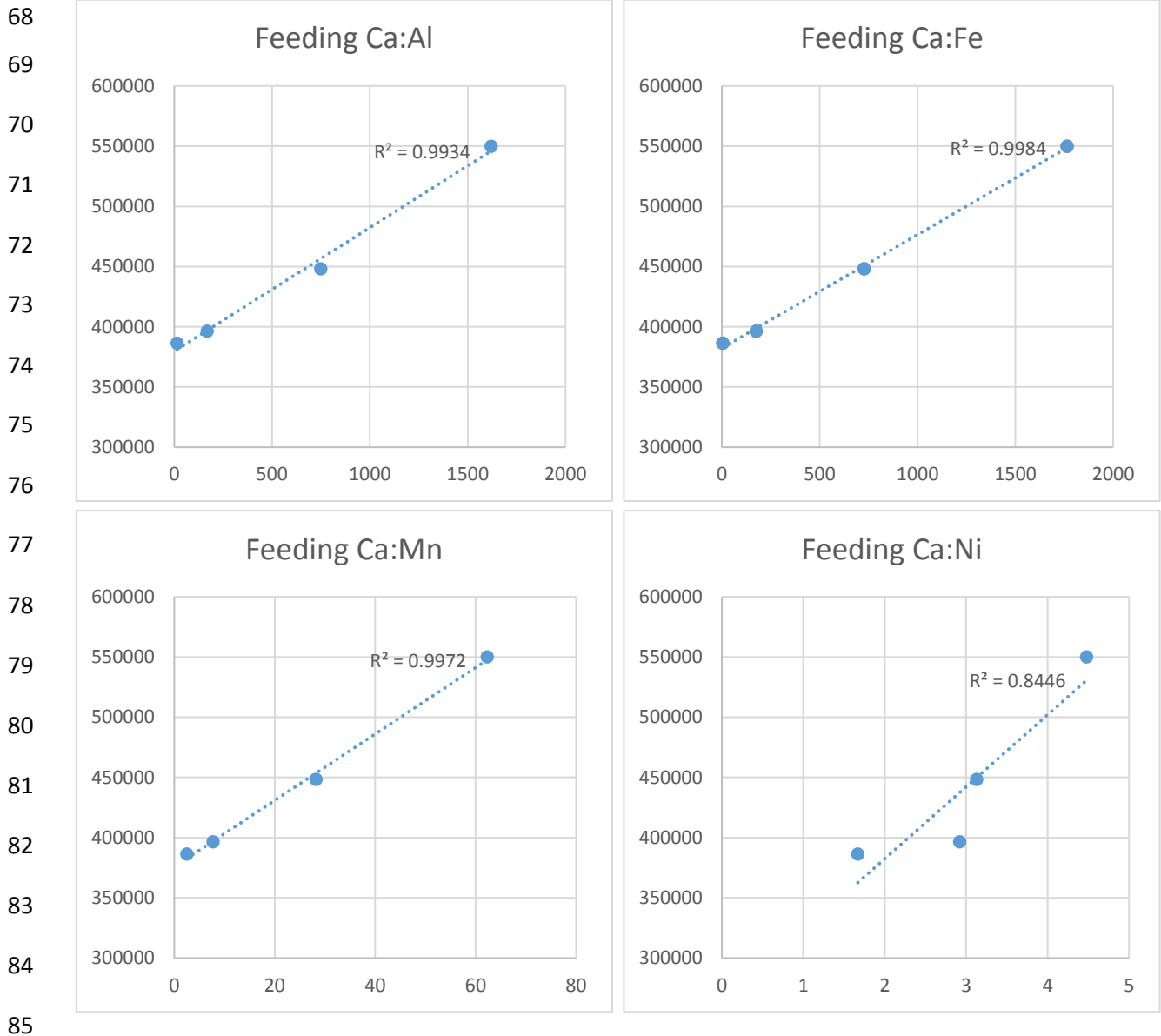
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66 Figure S2. Particle numbers in the exposure experiment determined at 0 (A,C) and 48 h (B,D)  
67 in feeding and FGT only exposed groups. Mean±SD. *n*=3



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86 Figure S3. Correlation between Ca and Al, Fe, Mn and Ni in the particulate tailing fraction in  
87 *C. finmarchicus* exposure experiments with feeding.

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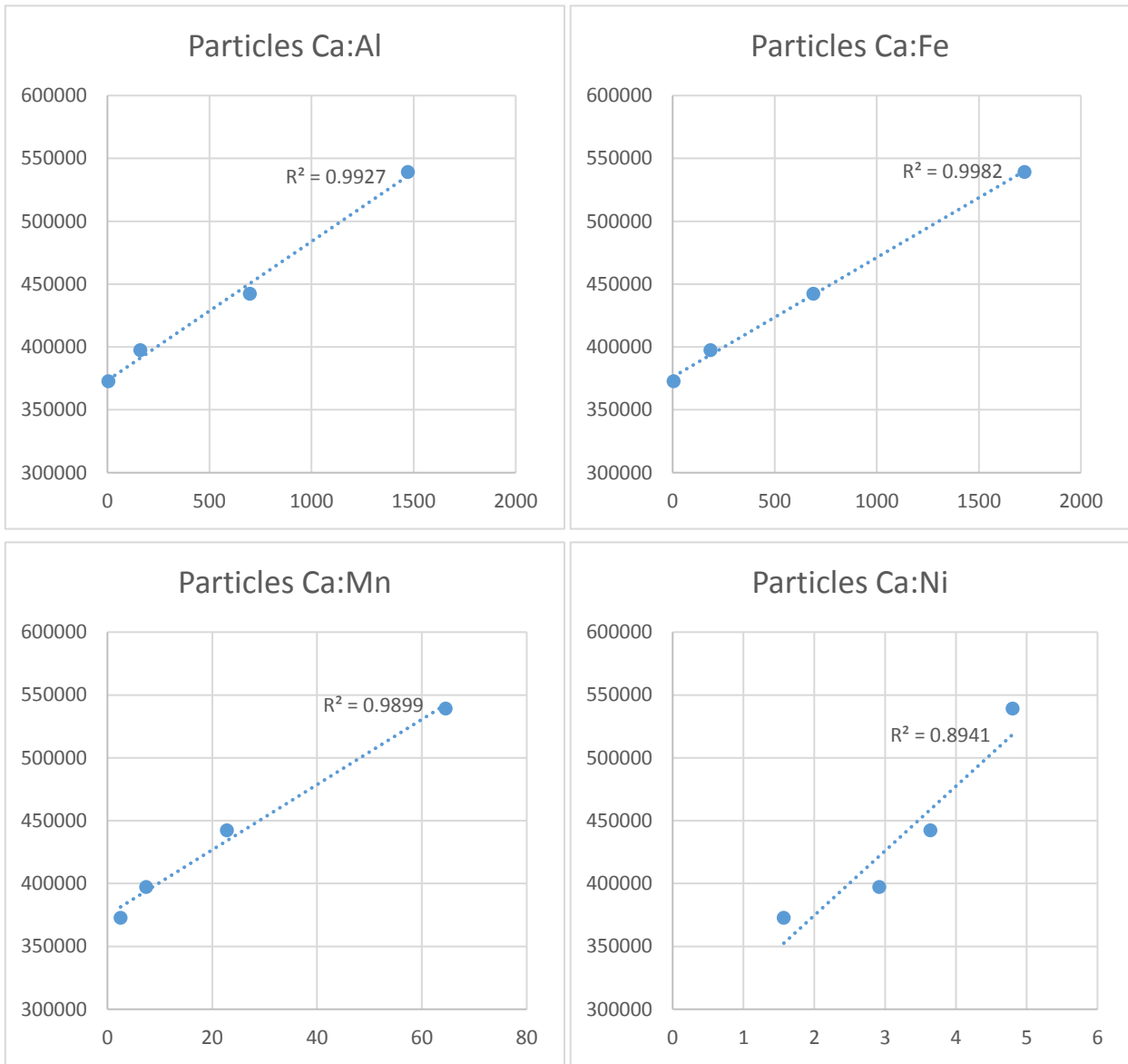
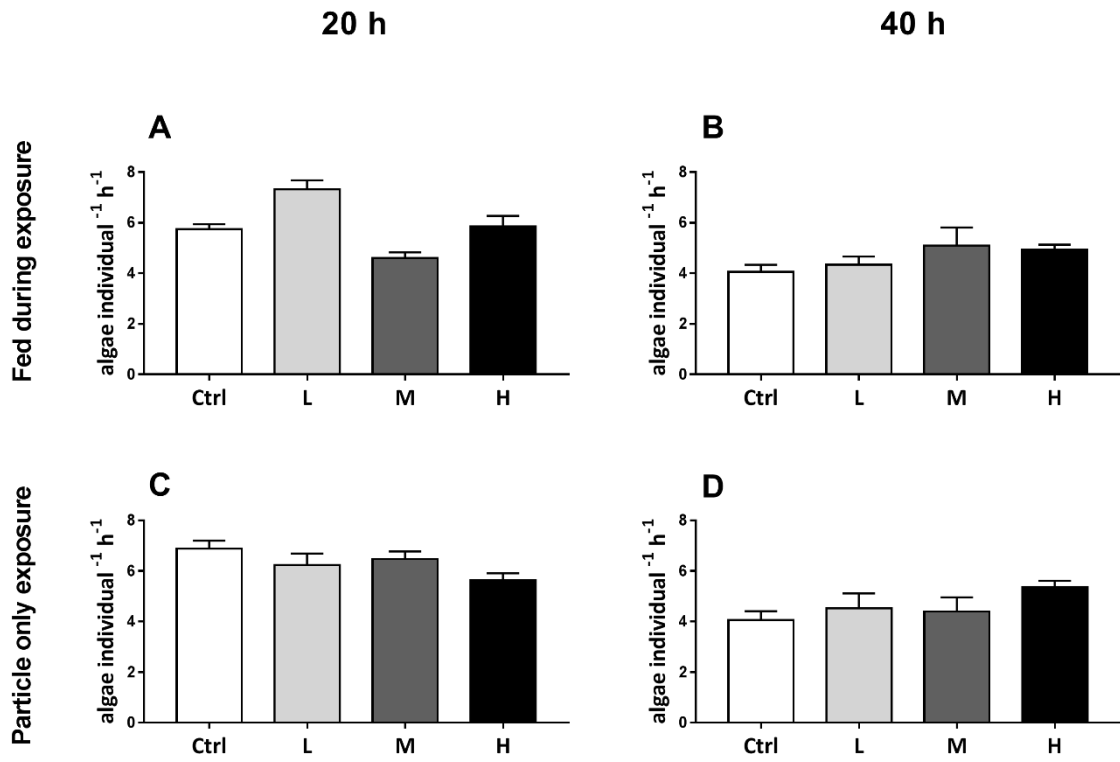


Figure S4. Correlation between Ca and Al, Fe, Mn and Ni in the particulate tailing fraction in *C. finmarchicus* exposure experiments without feeding (particles only).



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120 Figure S5. Feeding rates of *C. finmarchicus* after a depuration period of 20 h (A, C) and 40 h

121 (B, D) after a 48 h exposure to FGT only (C, D) and FGT with algae provided as food (A, B).

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