

Article

Supplementary material for Ecotoxicological properties of titanium dioxide nanomorphologies in *Daphnia magna*

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Supplementary Figures

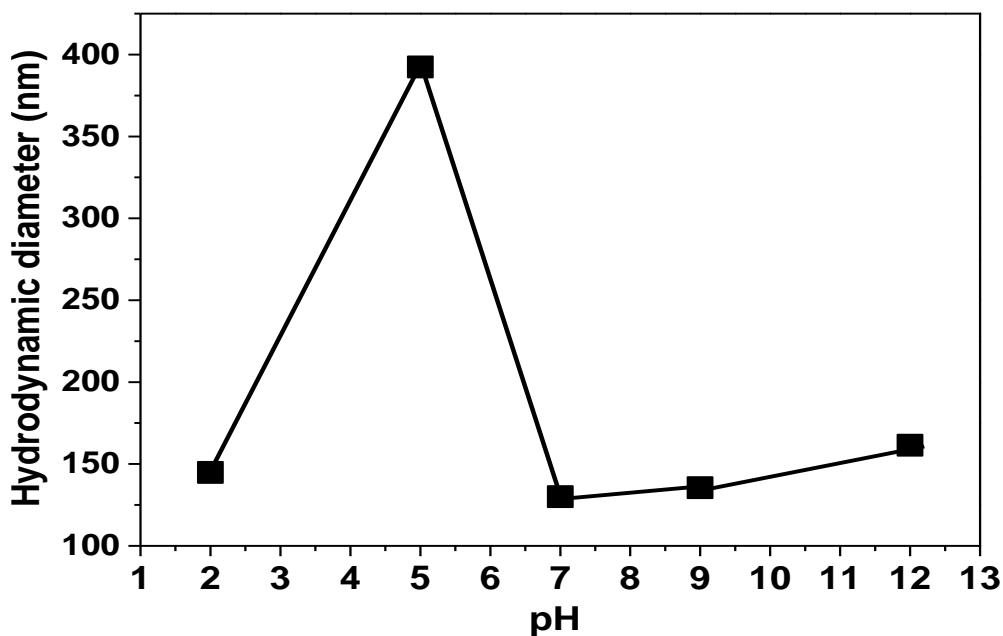


Figure S1. Graph of EHD vs pH for TiO₂ NPs (anatase). Each point is the result of the measurement with the highest baseline index.

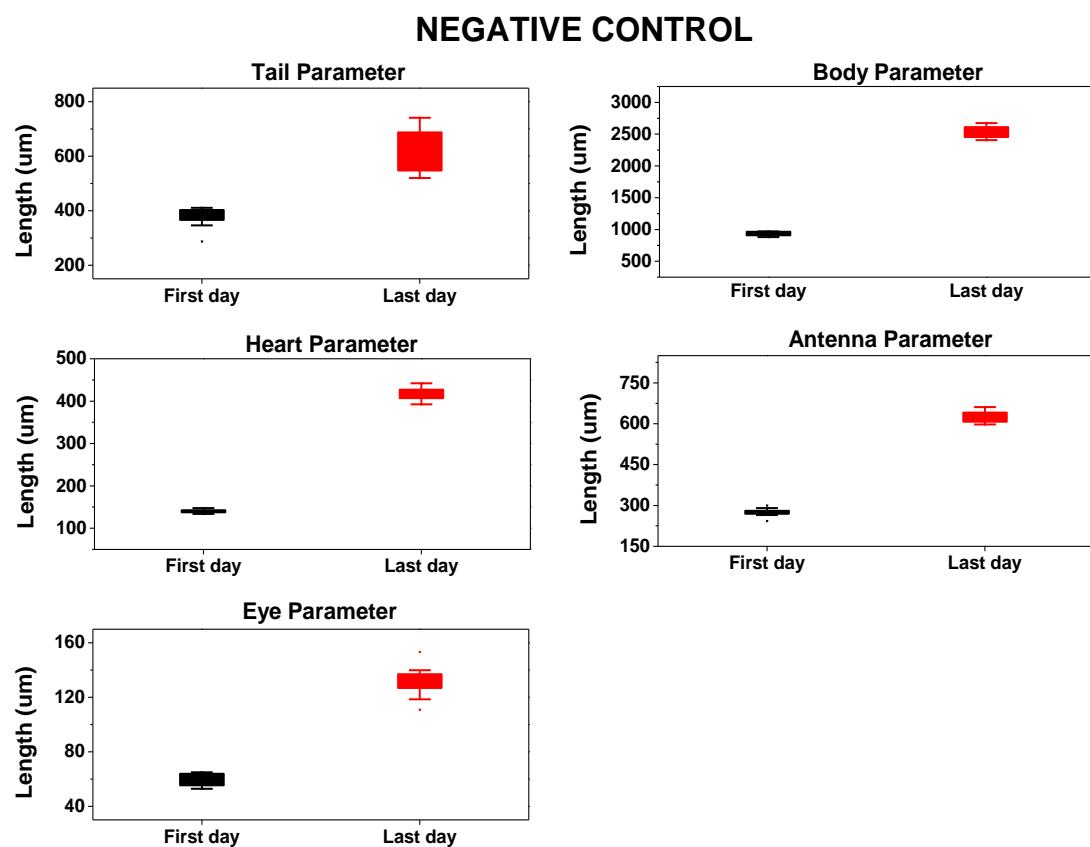


Figure S2. Box plot for all morphological parameters (Tail, Body, Heart, Antenna and Eye) for the negative control for both the first day and the last day.

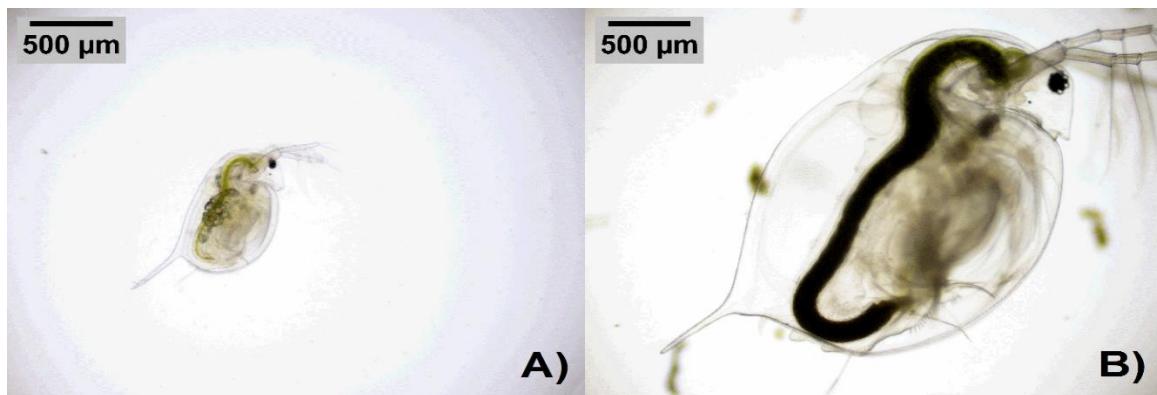


Figure S3. (A) *D. magna* neonate and (B) 16-day-old *D. magna*.

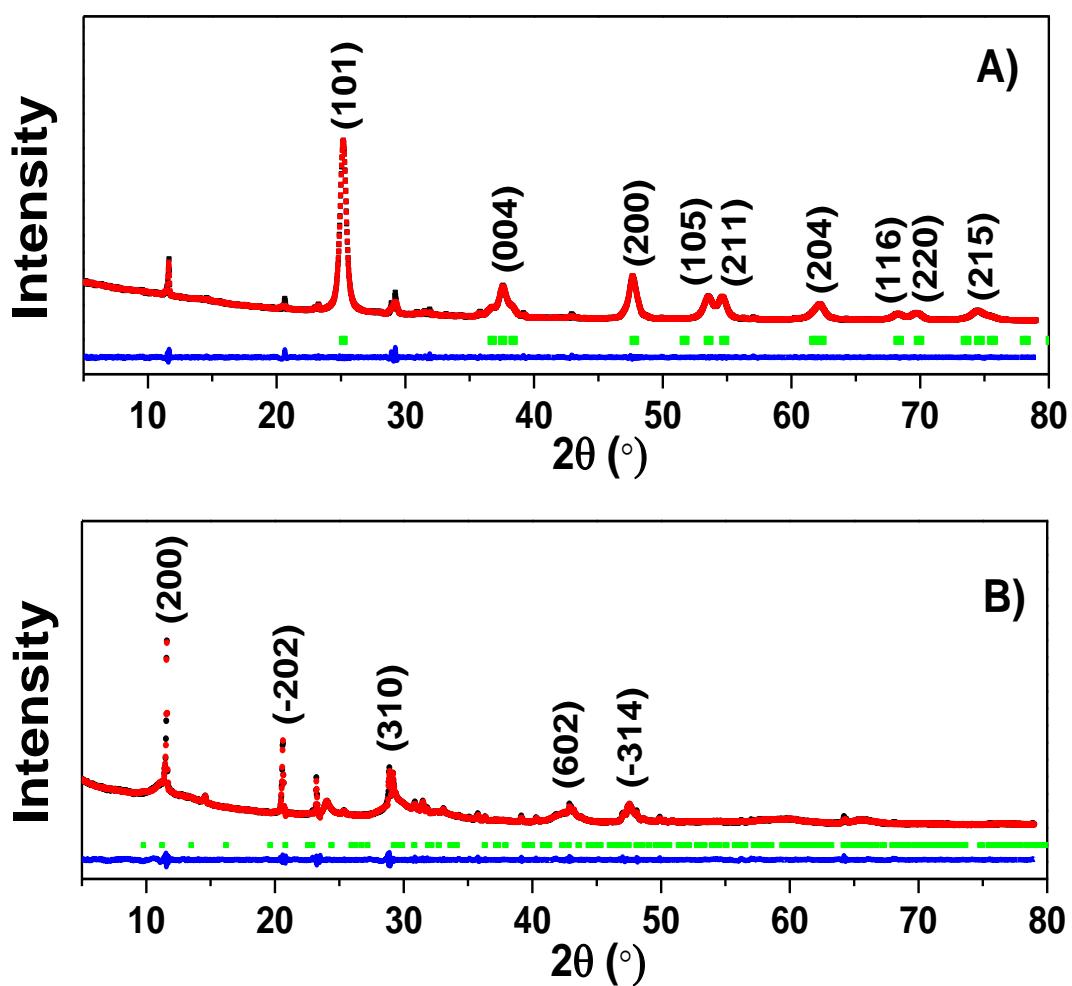
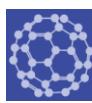


Figure S4. Rietveld refinement of the diffractogram obtained for the after the ecotoxicity experiment (A) TiO₂ NPs and (B) TiO₂ NWs.

Supplementary Tables

Table S1: Crystalline phase, Miller indices, and the Bragg angle for the TiO₂ NPs.

Crystalline phase	Miller indices	Bragg angle
anatase TiO ₂	(101)	25.3 °
anatase TiO ₂	(004)	37.8 °
anatase TiO ₂	(200)	48.0 °
anatase TiO ₂	(105)	53.9 °
anatase TiO ₂	(211)	55.0 °
anatase TiO ₂	(204)	62.7 °
anatase TiO ₂	(116)	68.8 °
anatase TiO ₂	(220)	70.3 °
anatase TiO ₂	(215)	75.1 °
anatase TiO ₂	(224)	82.7 °
anatase TiO ₂	(321)	95.2 °

Table S2: Crystalline phase, Miller indices, and the Bragg angle for the TiO₂ NWs sample.

The crystalline phase	Miller indices	Bragg's angle
Prototypic Trititanate H ₂ O ₇ Ti ₃	(200)	11.6 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(110)	24.2 °
Brookite TiO ₂	(121)	29.7 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(204)	43.4 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(020)	48.0 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(422)	59.5 °

Table S3: Crystalline phase, Miller indices, and Bragg angle for the TiO₂ NPs after ecotoxicity experiment.

Crystalline phase	Miller indices	Bragg's angle
anatase TiO ₂	(101)	25.3 °
anatase TiO ₂	(004)	37.8 °
anatase TiO ₂	(200)	48.0 °
anatase TiO ₂	(105)	53.9 °
anatase TiO ₂	(211)	55.0 °
anatase TiO ₂	(204)	62.7 °
anatase TiO ₂	(116)	68.8 °
anatase TiO ₂	(220)	70.3 °
anatase TiO ₂	(215)	75.1 °

Table S4: Crystalline phase, Miller indices, and Bragg angle for the TiO₂ NWs after ecotoxicity experiment.

Crystalline phase	Miller indices	Bragg angle
Prototypic Trititanate H ₂ O ₇ Ti ₃	(200)	11.6 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(-202)	20.6 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(310)	29.2 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(602)	42.7 °
Prototypic Trititanate H ₂ O ₇ Ti ₃	(-314)	47.3 °