

**Synergistic impact of nanoplastics and nanopesticides on *Artemia salina*
and toxicity analysis**

Mahalakshmi Kamalakannan^a, Durgalakshmi Rajendran^a, John Thomas^a, Natarajan
Chandrasekaran^{a*}

^aCentre for Nanobiotechnology, Vellore Institute of Technology.

Vellore - 632014, Tamil Nadu, India

Corresponding author,

Prof. Dr. Natarajan Chandrasekaran, Ph.D. D.Sc. FRES., FRSB., FRSC

Senior Professor

Centre for Nanobiotechnology,

Vellore Institute of Technology,

Vellore - 632014, Tamil Nadu, India

Email: nchandrasekaran@vit.ac.in, nchandra40@hotmail.com

<http://orcid.org/0000-0002-0586-134X>

Tel.+91 416 2202624. Fax. +91 416 2243092

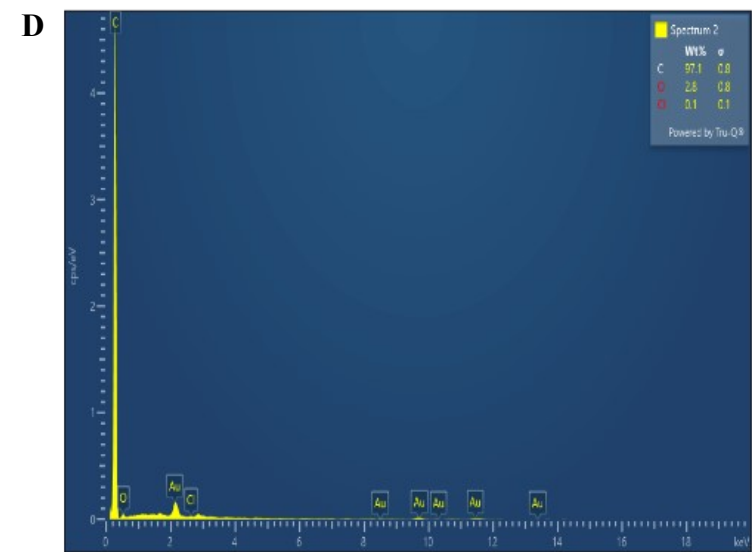
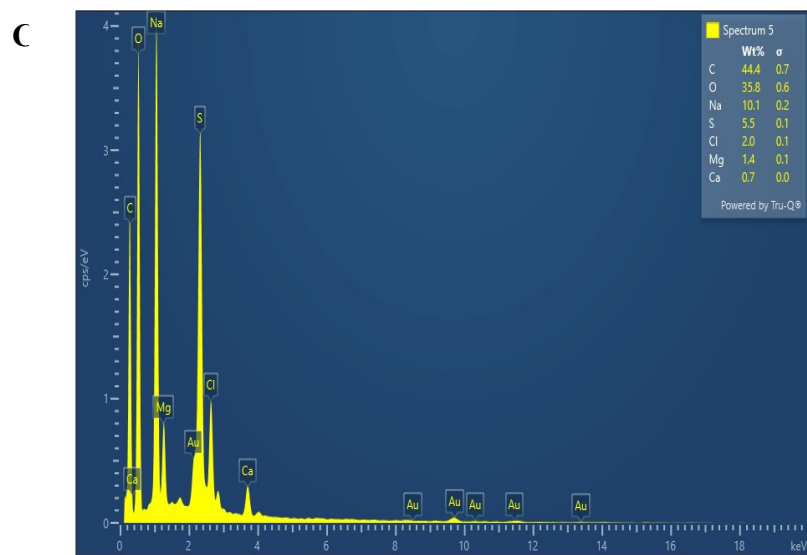
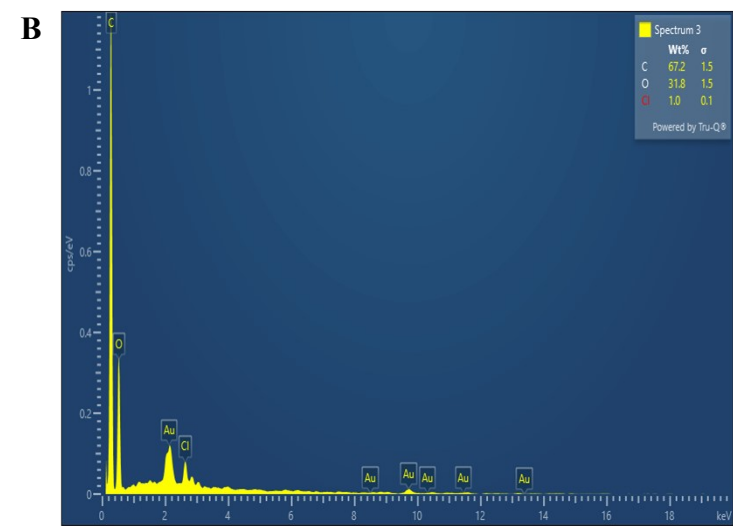
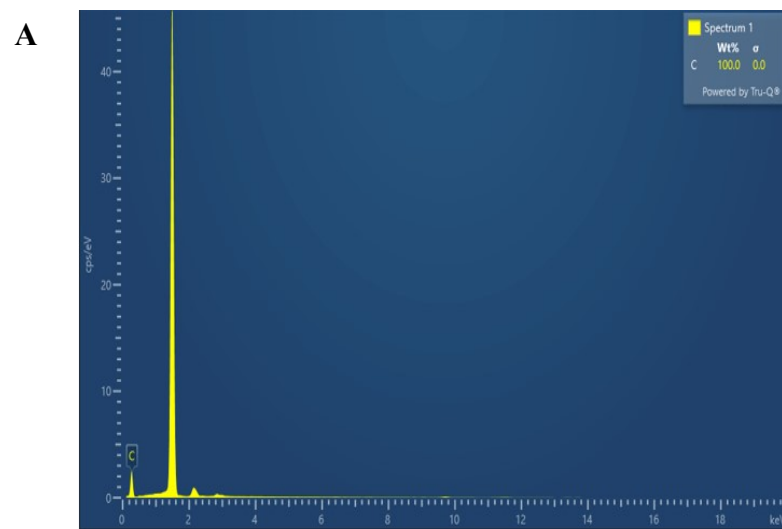


Fig.S1 EDX analysis of (A) PSNPs 100 nm, (B) NPER, (C) complex PSNPs + NPER + seawater, (D) PSNPs + NPER +milli-Q water EDX.

24.24 spectrum

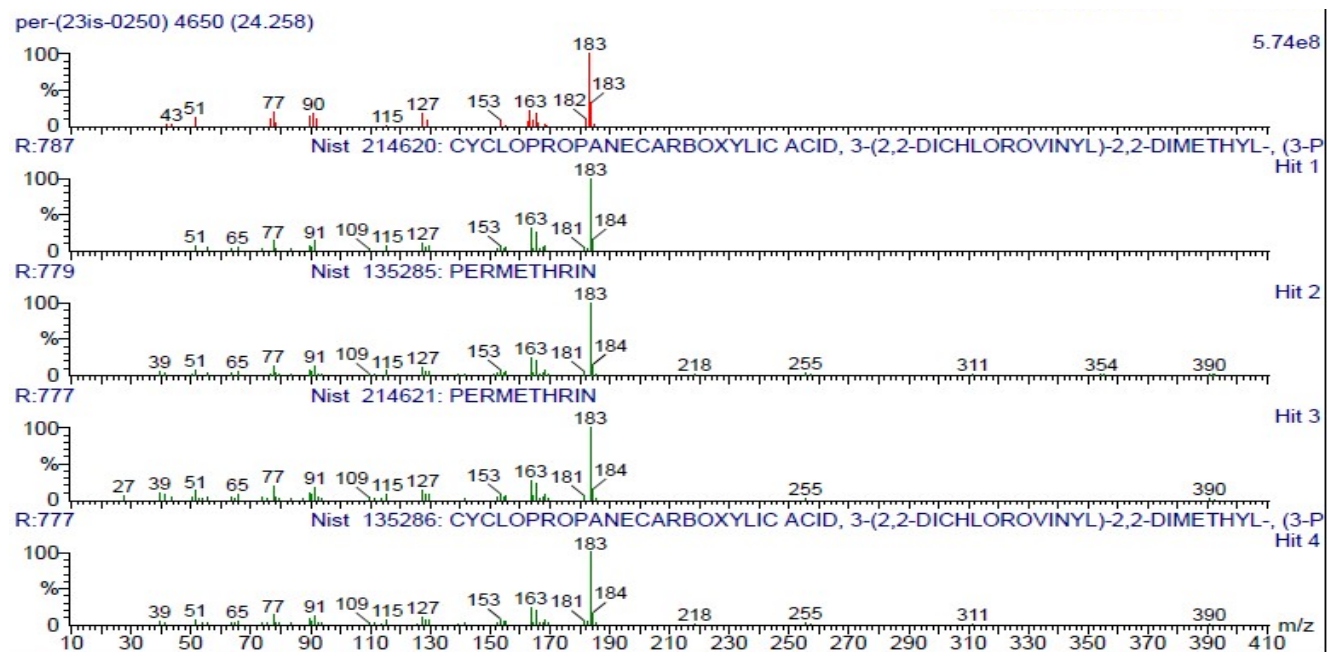


Fig.S2a GC-MS analysis spectrum for nanopermethrin.

24.06 spectrum

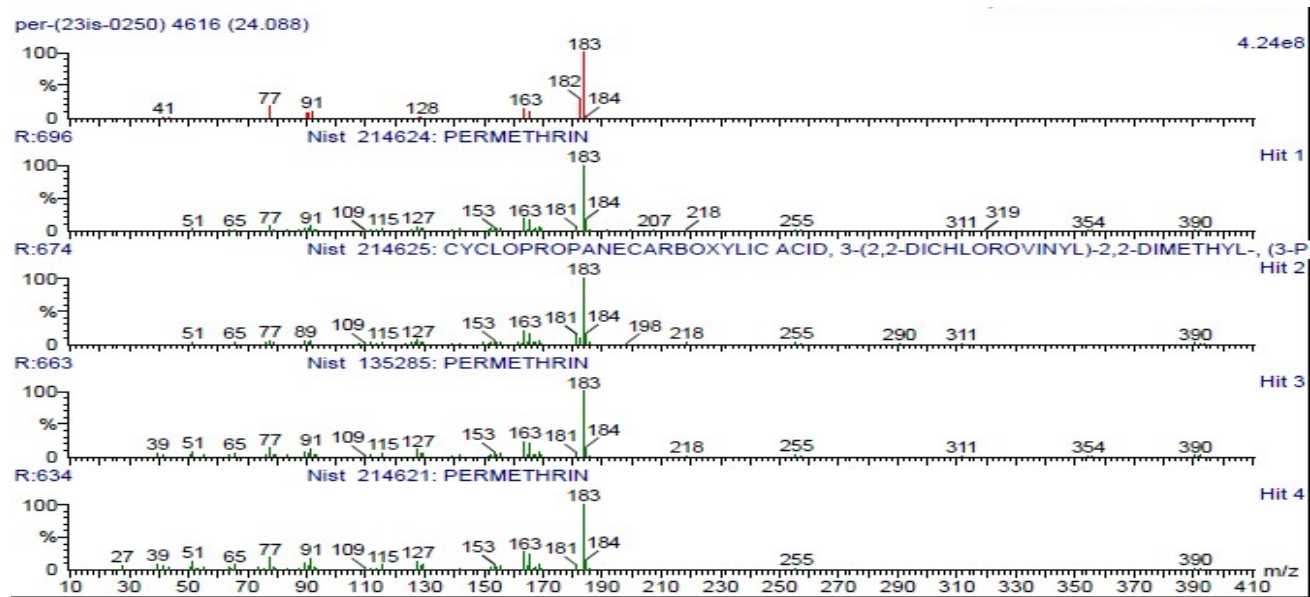


Fig.S2b GC-MS analysis spectrum for nanopermethrin.

Control



NPER treated

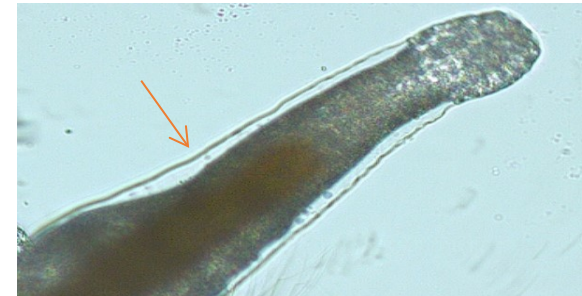


Fig.S3 The life stage and morphological changes in *Artemia salina* (fig 9 (3 d, e)) NPER, treated *Artemia salina* gut region shrink region magnified images are shown.