

Degradable plastics could do favor to protect the marine environment: Proof based on pollutant surface behaviors

Xiaotao Liu ^a, Xueting Hua ^b, Jian Lu^{b*}, Jun Wu ^a, Yuexia Feng ^b

^a College of Materials Science and Chemical Engineering, Harbin Engineering University, Harbin,
Heilongjiang 150001, P.R. China

^b CAS Key Laboratory of Coastal Environmental Processes and Ecological Remediation, Yantai
Institute of Coastal Zone Research (YIC), Chinese Academy of Sciences (CAS); Shandong Key
Laboratory of Coastal Environmental Processes, YICCAS, Yantai, Shandong 264003, P.R. China

* Corresponding author: Jian Lu

E-mail address: jlu@yic.ac.cn (J. Lu)

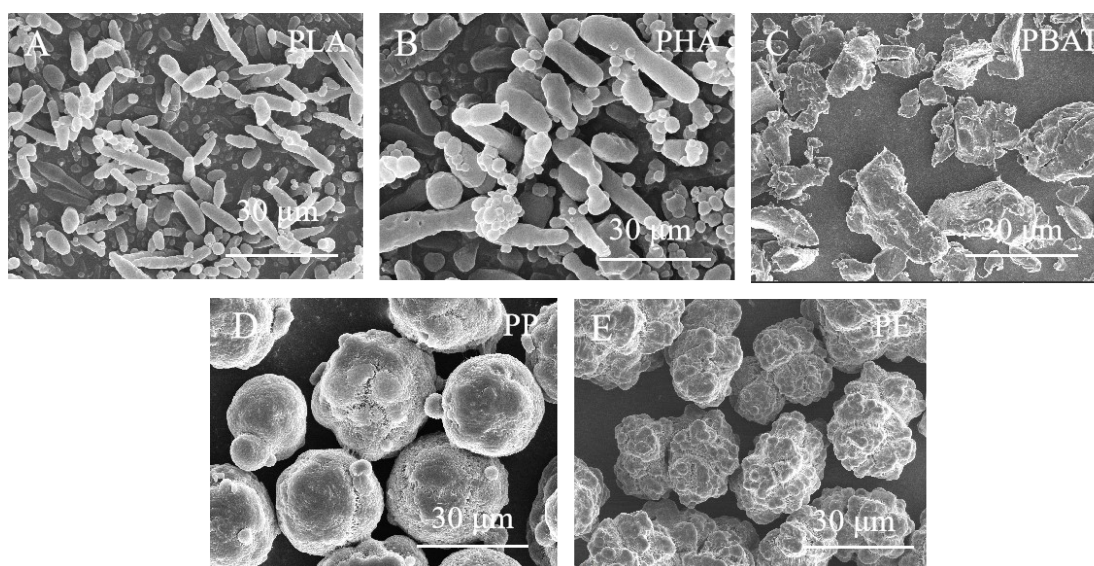


Figure S1. the SEM of PLA (B), PHA (C), PBAT (D), PP (E) and PE (F).

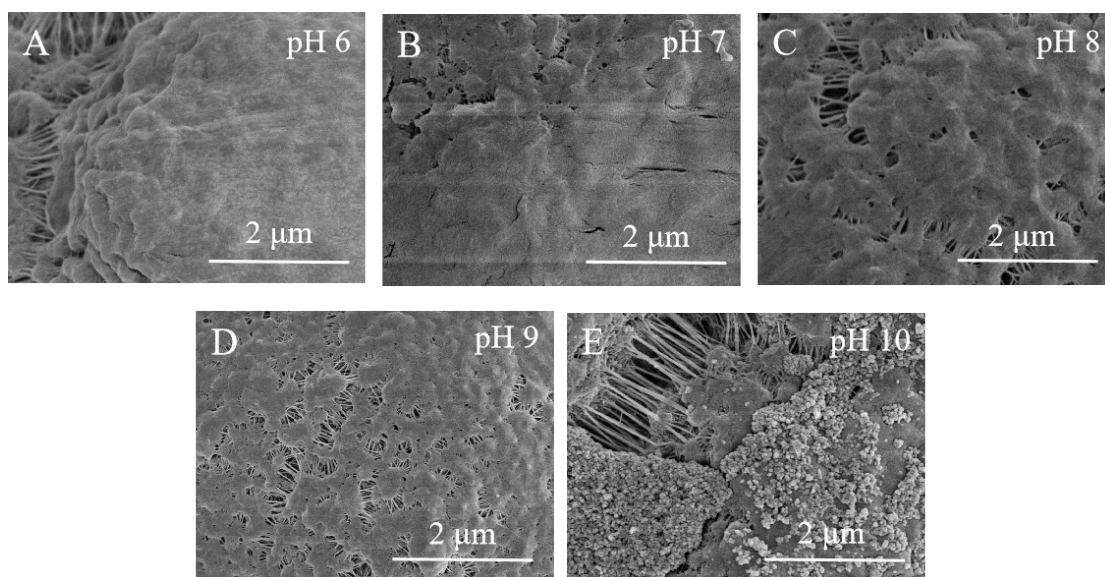


Figure S2. The SEM of PE microplastics under different pH conditions.

Table S1. The zeta potential of microplastics under different pH conditions.

type	pH 6 (mV)	pH 7 (mV)	pH 8 (mV)	pH 9 (mV)	pH 10 (mV)
PLA	-3.59	-6.63	-11.4	-14.7	-18.9
PHA	-7.72	-10.2	-15.8	-18.6	-27.0
PBAT	-6.07	-10.5	-15.7	-19.2	-24.5
PP	-6.16	-9.35	-15.0	-20.3	-24.1
PE	-4.38	-7.81	-16.2	-19.1	-22.4