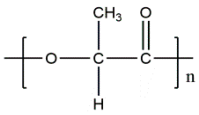
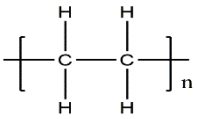
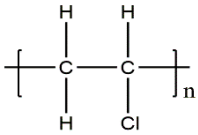
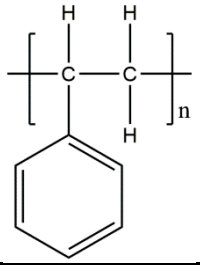
Can Polylactic Acid (PLA) Act as an Important Vector for Triclosan?

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Table S1. The molecular structure of PLA, PE, PVC and PS.

Microplastic	PLA	PE	PVC	PS
Type	Biodegradable	Non-biodegradable	Non-biodegradable	Non-biodegradable
Structure				

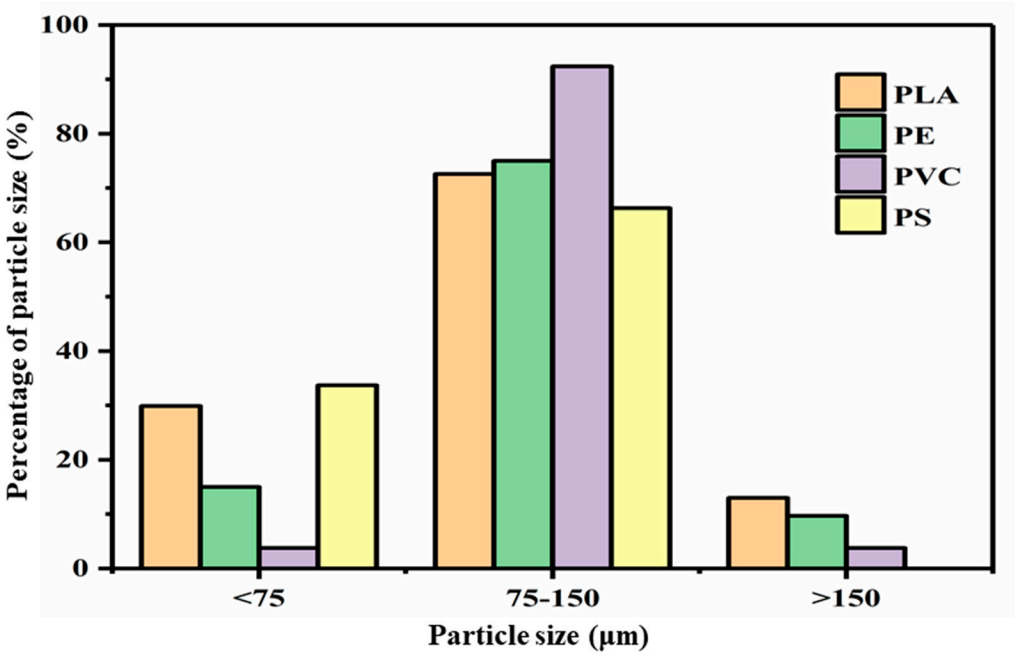


Figure S1. The particle sizes distribution of PLA, PE, PVC and PS.

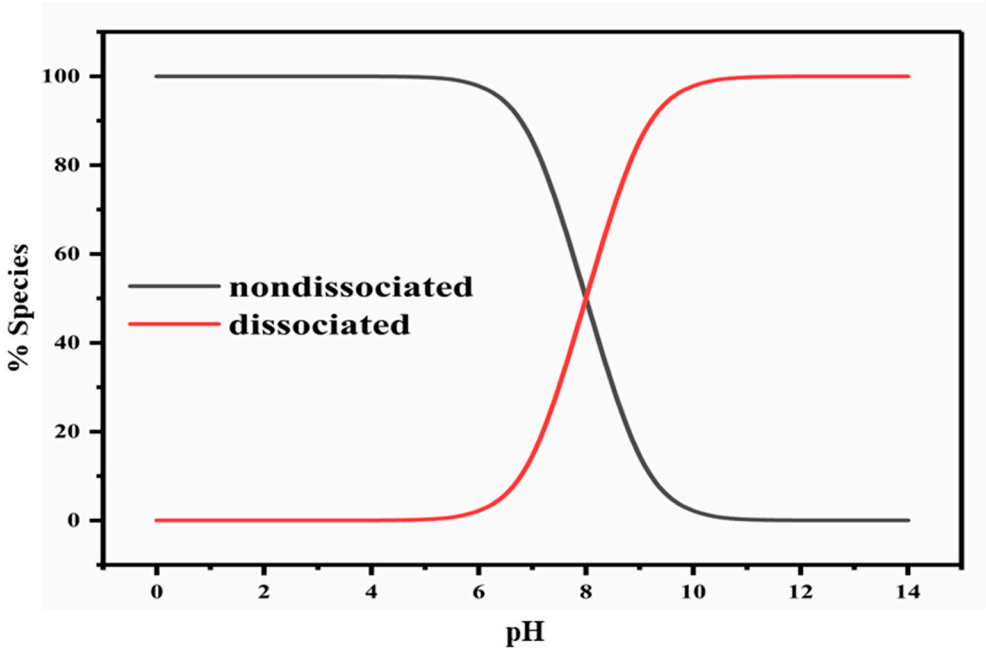


Figure S2. Distribution of TCS species as a function of pH values.

The measure method of point of zero charge (PZC)

The point of zero charge (PZC) was measured by titration according to the method proposed by Tripathy et al [24]. Briefly, to a series of well-stoppered 125 ml polyethylene bottle containing 40 ml of desired electrolyte solution, different volumes of either 0.1 M HCl or 0.1 M NaOH solution were added in such a way so as to obtain wide ranging pH values (pH 2–10). The total volume of solution in each bottle was made up to 50 ml by the relevant electrolyte solution. After 2 h of equilibration the pH values were noted. These were designated as initial pH values or pHi. A known amount of solid oxide/mixture of oxides was added in each bottle which was then flushed with nitrogen gas for 3–5 min and then stoppered securely. After 72 h of equilibration at 300 K with intermittent shaking, the pH values of the supernatant liquid in each bottle was noted and designated as final pH or pHf. The difference between pHi and pHf (ΔpH) when plotted against pHi. The resultant curve intersects ΔpH = 0 at a certain value of pHi. This means that at this pH the oxides or mixture of oxides do not induce the release of either H+ or OH− ion in solution; i.e., the surface does not undergo or acquire any charge through acid–base dissociation, a condition for pHpzc.

Reference

Tripathy, S.S.; Kanungo, S.B. Adsorption of Co^{2+}, Ni^{2+}, Cu^{2+} and Zn^{2+} from 0.5 M NaCl and major ion sea water on a mixture of δ-MnO_2 and amorphous FeOOH. *J. Colloid Interface Sci.* **2005**, *284*, 30–38.