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# Shape, size, and polymer dependent effects of microplastics on *Daphnia magna*

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## Abstract

The effects of microplastic (MP) pollution on organisms are gaining increasing attention. To date, a variety of polymers of different shapes and sizes are used in polystyrene (PS) is the predominant polymer type used in effect studies, it is still unclear whether the observed effects derive from the polymer itself or from a certain particle shape and size. To elucidate whether the effects are polymer specific, we conducted a systematic study on *Daphnia*

**Keywords:** Microplastics, Polymer dependent effect, *Daphnia*, Hazard assessment, Control particles

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