Support Information

Microplastic Leachates in Farmland: Impact of Acid Rain on DOM Characteristics and Metal Release

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Component Excitation / Emission **OpenFluor Component** Probable sources and Refere (C) (Ex/Em) (C) Descriptions nce (Yang et al., **Plastic-derived organic** 2019; Lee et C6 C1 220nm/330nm additives (such as DEHP and 2020; al., (Tryptophan-like) BPA) Lee et al., 2023) (Du et al., C1 Plastic-derived Amide / C2 2021; Wang 275nm/312nm Phenol-like (Tyrosine-like) et al., 2023)

Table S1 DOM components identified by OpenFluor database and references

Reference:

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four commonly commercial microplastics[J]. Journal of Hazardous Materials, 2023, 451, 131151.

Treatment		Zn (mg∙kg⁻¹)	Sb (mg·kg ⁻¹)
PE	G-net	75.1±2.07	0.26±0.05
	B-net	20.1±0.84	2.03±0.34
	W-pemf	42.6±1.23	0.07±0.01
	B-pemf	163 ±3.75	0.02±0.02
PLA+PBAT	W-biomf	4.50±2.07	0.26±0.44
	B-biomf	4.32±1.20	0.01±0.02
PP	G-cover	38.2±0.66	399±82.3
	B-cloth	11.6±4.00	1.36±1.58
	W-bag	11.9±0.83	1.48±0.07
PET	Gr-carpet	8.75±0.29	68.6±31.0
	C-curtain	9.43±2.08	63.5±40.7

Table S2 The total amount of Zn and Sb in MPs