Table S1: Meteorological data

Meteorological station MAKSIMIR   Latitude: 45°49'17.04"
                                             Longitude: 16°2'1.32"

Data for period: 27. 5. 2022 - 10. 07. 2022

	average	SD	min	max
Average daily air temperature (°C)	22,560	4,296	13,2	30,2
Daily rainfall (mm)	2,380	3,916	0,0	12,5
Average daily air humidity (%)	57,844	8,335	42,0	79,0
Average daily atmospheric pressure (hPa)	1000,982	3,349	993,1	1007,7
Daily sunshine sum (h)	10,998	3,124	3,0	14,5
Daily evaporation (mm)	6,420	1,958	1,3	10,7
Daily soil temperature at 2 cm depth	26,444	4,103	15,8	32,2
Daily soil temperature at 5 cm depth	25,596	3,946	16,0	30,7
Daily soil temperature at 10 cm depth	24,922	3,856	16,2	29,9
Daily soil temperature at 20 cm depth	24,340	3,728	16,7	29,0
Daily soil temperature at 30 cm depth	23,673	3,641	16,6	28,2
Average daily wind speed (m/s)	1,549	0,501	1,1	4,1

Maksimir lake

Data for period: 02. 6. 2022 - 10. 07. 2022

	average	SD	min	max
Average water temperature (°C)	24,54875	3,593238	19,39	31,74
pH	7,9825	0,177341	7,75	8,22
Percentage dissolved oxygen (% DO)	66,675	10,76154	43,6	77,6

Figure S1: Polymer-based bags before degradation in different environments

Green polymer-based bag

White polymer-based bag

Brown polymer-based bag

Blue polymer bag – conventional plastic bag