

Supplementary Information

Adsorption of a mixture of daily-used pharmaceuticals on pristine and aged polypropylene microplastics

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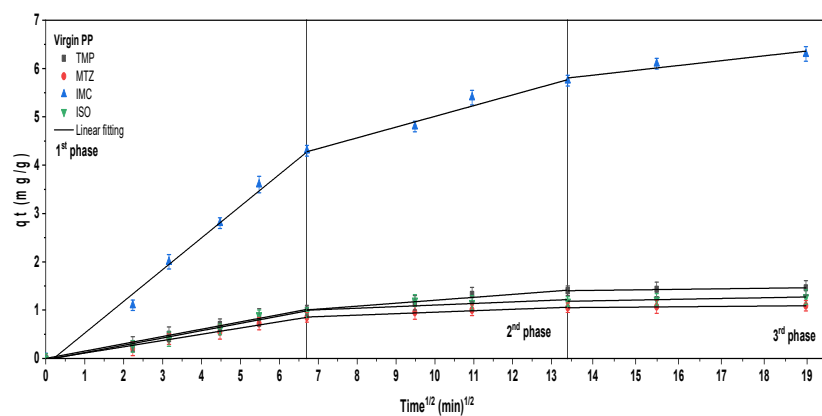
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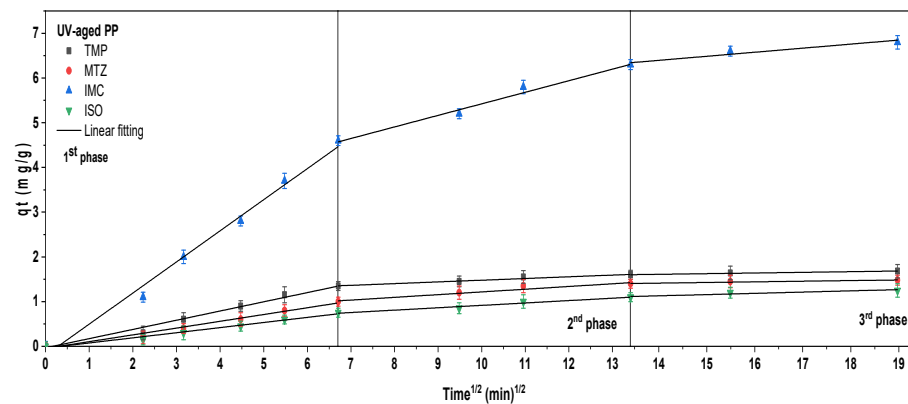
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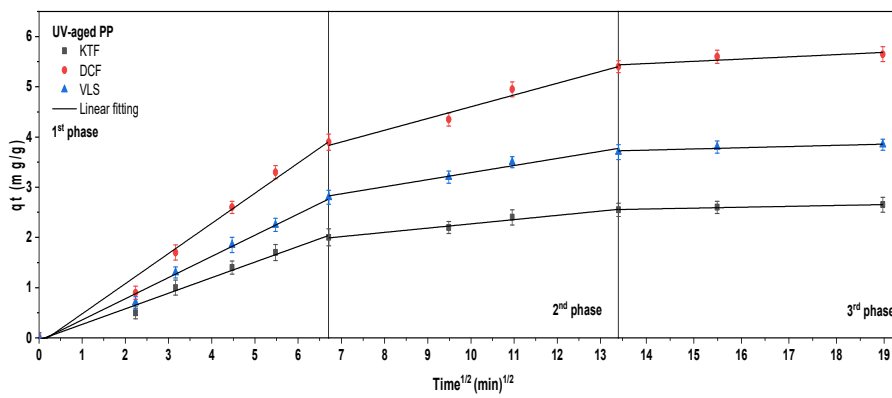
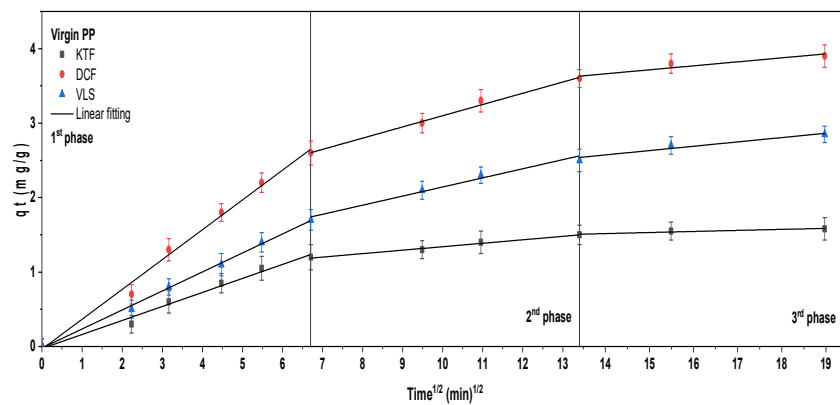
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(a)



(b)



(c)

(d)

Figure S1. The intraparticle diffusion study on (a) Virgin PP using, (b) UV-aged PP, and DCF, KTF, and VLS adsorbed on (c) Virgin PP using, (d) UV-aged PP, and fitted with Linear fitting model.

Table S1. The adsorption intraparticle diffusion parameters of the target compounds examined on Virgin, and UV-aged PP-MPs.

		Linear model									
		First phase				Second phase				Third phase	
MPs		Q_e (mg/g)	R^2	X^2	K_1 (mg/g t ^{0.5})	C_i	R^2	K_2 (mg/g t ^{0.5})	C_i	R^2	K_3 (mg/g t ^{0.5})
Virgin PP	TMP	1.05	0.996	0.160	0.151	0.594	0.967	0.061	1.255	0.966	0.010
	MTZ	0.85	0.990	0.353	0.129	0.654	0.974	0.030	0.955	0.971	0.007
	IMC	4.31	0.991	6.883	0.657	2.788	0.965	0.222	4.466	0.795	0.070
	ISO	0.95	0.966	1.758	0.150	1.048	0.664	0.033	0.963	0.985	0.016
UV-aged PP	TMP	1.35	0.989	0.949	0.206	1.097	0.964	0.038	1.407	0.966	0.014
	MTZ	1.02	0.981	0.889	0.151	0.688	0.940	0.060	1.211	0.891	0.014
	IMC	4.62	0.986	2.831	0.691	2.838	0.982	0.258	5.124	0.839	0.090
	ISO	0.98	0.983	0.992	0.174	0.382	0.693	0.053	0.734	0.964	0.027
Virgin PP	KTF	1.20	0.981	0.921	0.188	0.876	0.979	0.046	1.320	0.805	0.014
	DCF	2.62	0.991	2.194	0.400	1.592	0.989	0.150	2.911	0.774	0.053
	VLS	1.73	0.997	0.287	0.255	0.919	0.964	0.122	1.758	0.892	0.058
UV-aged PP	KTF	2.05	0.983	2.240	0.310	1.421	0.968	0.084	2.316	0.974	0.017
	DCF	3.91	0.984	4.870	0.600	2.263	0.958	0.234	4.840	0.789	0.044
	VLS	2.82	0.990	2.809	0.421	1.882	0.952	0.141	3.403	0.807	0.077