

**Supporting Information for**

**Adsorption mechanisms of short-chain and ultrashort-chain PFAS on  
anion exchange resins and activated carbon**

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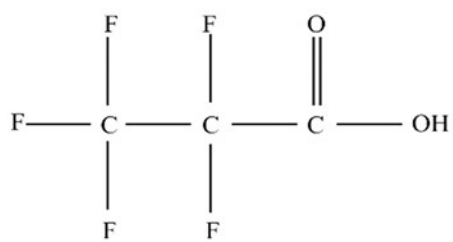
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Studi di Siena, Siena, Italy

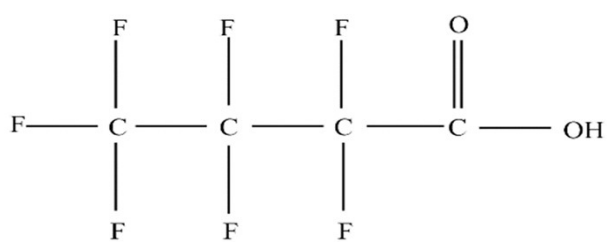
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**Figures: 4 (S1-S4)**

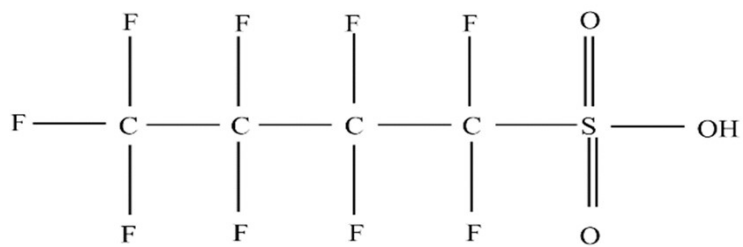
**Tables: 1 (S1)**



**PFPrA**

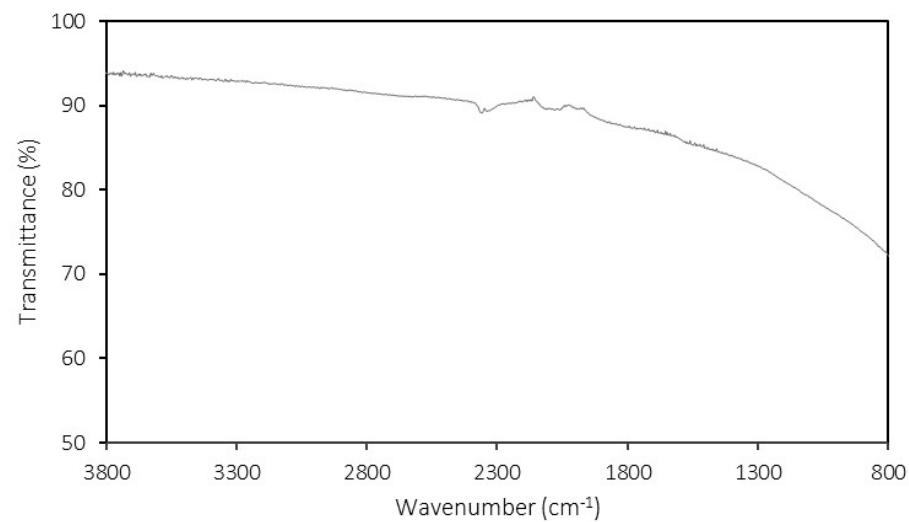
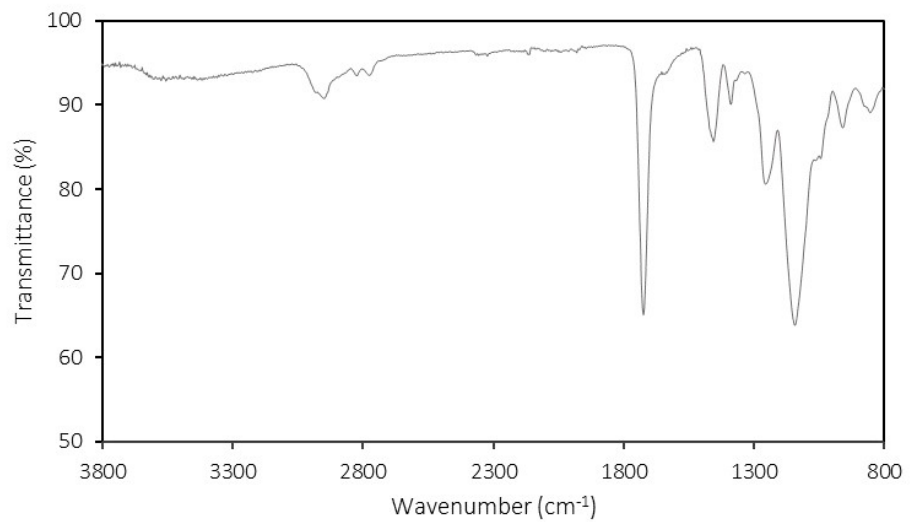
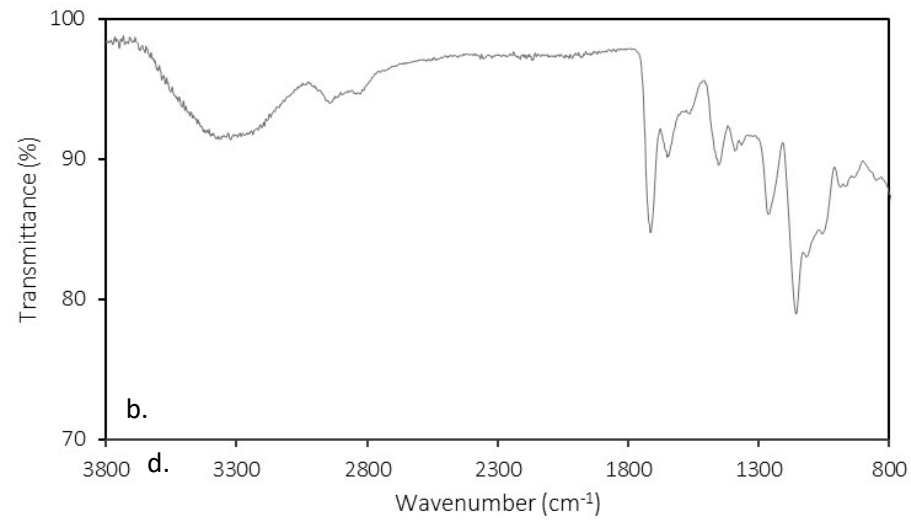
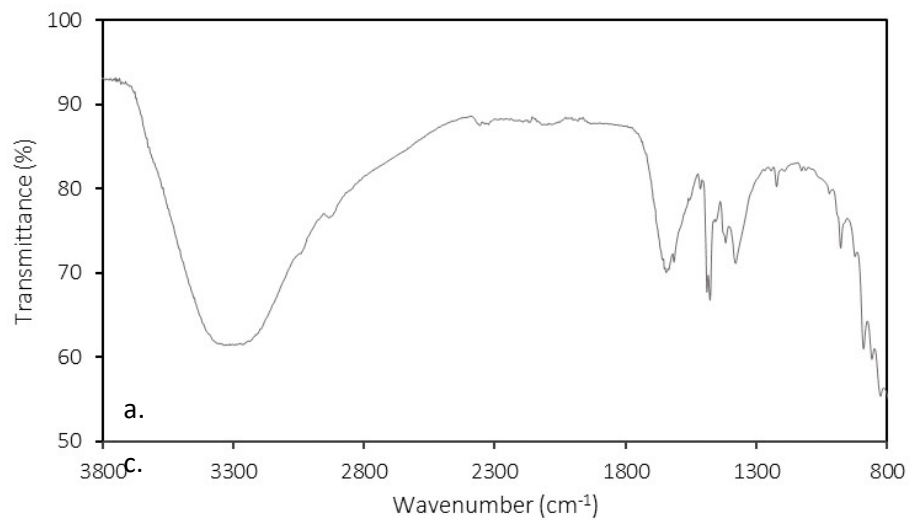


**PFBA**

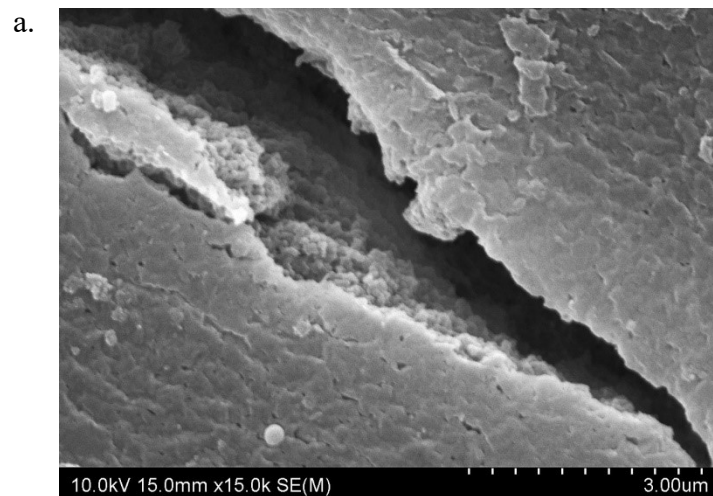


**PFBS**

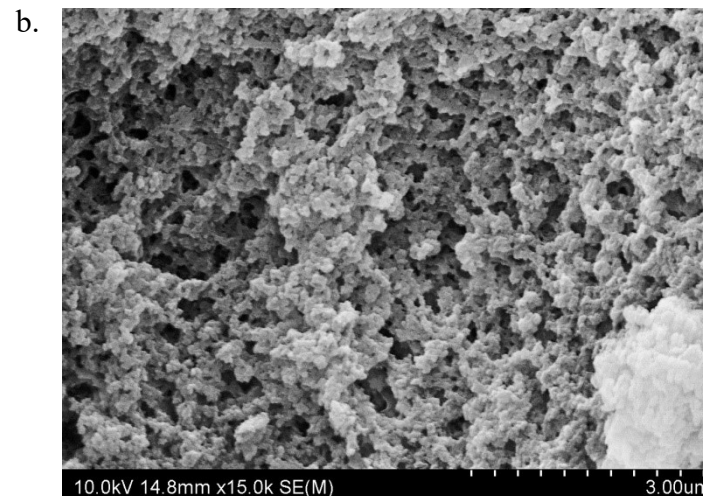
**Figure S1.** Molecular structures of selected PFAS



**Figure S2.** FTIR spectra of the adsorbents: a. A900, b. V1, c. V13, and d. AC



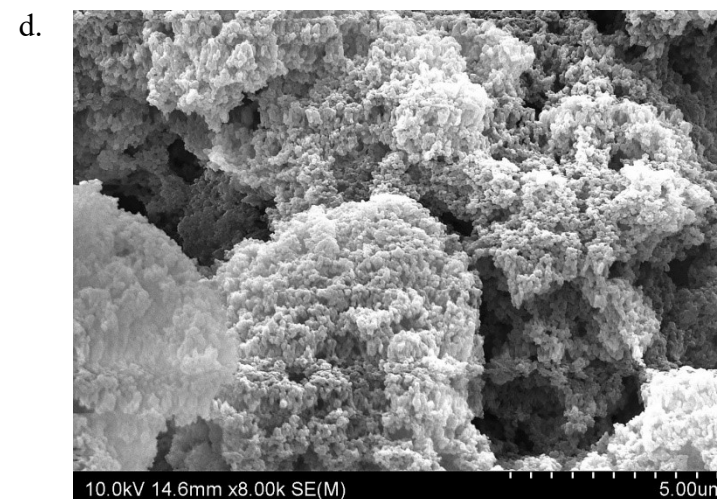
**A900**



**V1**

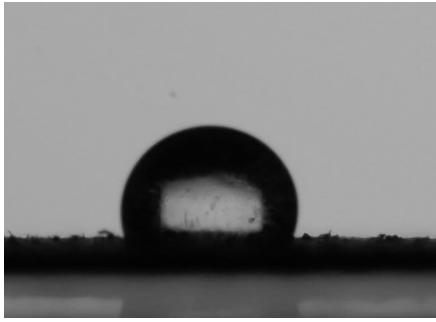


**AC**

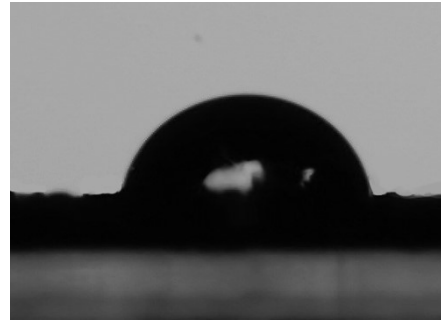


**V13**

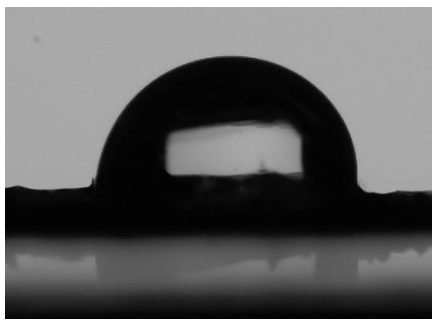
**Figure S3.** SEM images of the adsorbents: a. A900, b. V1, c. AC at  $\times 15,000$  and d. V13 at  $\times 8,000$  magnification



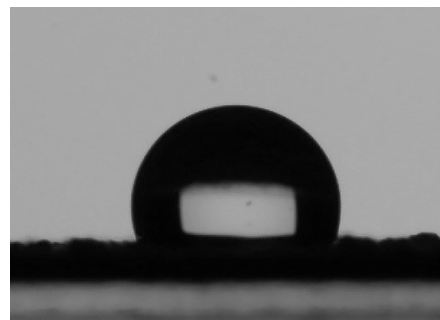
a. A900



b. AC



c. V1



d. V13

**Figure S4.** Contact angle measurements of the adsorbents: a. A900, b. AC, c. V1, d. V13

**Table S1.** Chemical properties of the adsorbents

Adsorbent	Weight % of elements			
	C	N	H	S
A900	78.05	5.04	9.545	0.46
AC	70.2	0.43	0.704	0.357
V1	59.73	3.49	8.145	0.219
V13	55.64	5.75	8.957	0.164