

Electronic Supplementary Information to the paper “High-performance and selective adsorption of ZIF-8/MIL-100 hybrids towards organic pollutants”

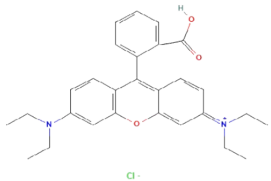
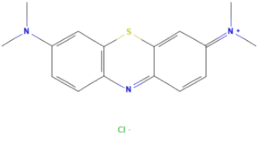
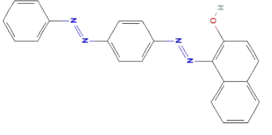
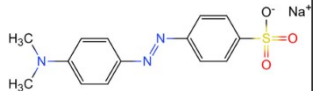
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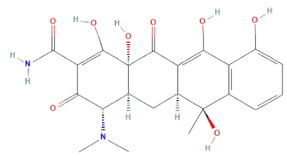
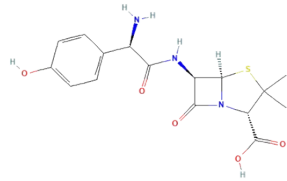
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Table S1 Molecular structure, size, and weight for each organic pollutant

Organic pollutant	Molecular Structure	Molecular Size (nm×nm×nm)	Molecular Weight (g/mol)	UV adsorption (nm)
RHB (Rhodamine B)		1.59×1.18×0.56	479.0	556
MB (Methylene Blue)		1.26×0.77×0.65	319.9	666
SD-III (Sudan III)		1.57×0.73×0.68	352.4	507
MO (Methyl Orange)		1.31×0.55×0.18	327.34	464

<p>TC (Tetracycline)</p>	 <p>The image shows the chemical structure of Tetracycline, a tetracycline antibiotic. It features a complex polycyclic core with four fused rings: a dimethylamino group, a tetracyclic core, a dimethylamino group, and a tetracyclic core. The structure is highly detailed with stereochemistry and various functional groups.</p>	<p>1.26×0.69×0.76</p>	<p>444.4</p>	<p>357</p>
<p>AMX (Amoxicillin)</p>	 <p>The image shows the chemical structure of Amoxicillin, a penicillin antibiotic. It features a beta-lactam ring fused to a thiazolidine ring, with a side chain containing a para-hydroxyphenyl group and a methyl group. The structure is highly detailed with stereochemistry and various functional groups.</p>	<p>1.24×0.56×0.46</p>	<p>365.4</p>	<p>251</p>