Supplementary Material

Effective adsorptive removal of 2, 4, 6-trinitrotoluene and hexahydro-1, 3, 5-trinitro-1, 3, 5-triazine by pseudo graphitic carbon: kinetics, equilibrium and thermodynamics

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Table S1. Physical properties and molecular structures of TNT and RDX

<table>
<thead>
<tr>
<th>Parameter</th>
<th>TNT</th>
<th>RDX</th>
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<tbody>
<tr>
<td>Molecular weight (g mol⁻¹)</td>
<td>227.13</td>
<td>222.26</td>
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<tr>
<td>Density (g cm⁻³)</td>
<td>1.654</td>
<td>1.82</td>
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<tr>
<td>Solubility in water (mg L⁻¹ in 20 °C)</td>
<td>130</td>
<td>39</td>
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<tr>
<td>Octanol-water partition coefficient</td>
<td>1.6</td>
<td>0.87</td>
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<tr>
<td>(logK_{ow})</td>
<td></td>
<td></td>
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<tr>
<td>Molecular structure</td>
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</tbody>
</table>

[Chemical structures of TNT and RDX]
Fig. S1. The effect of dosage on adsorptive removal of TNT and RDX (10 mg L$^{-1}$) onto PGC at pH 6.0, 24 h equilibrium time at room temperature (293 K).
Fig. S2. Adsorption isotherm Langmuir (a) and Freundlich (b) plots in linear regression analysis for TNT and RDX (initial concentration: 10 mg L⁻¹) onto PGC (0.3 g L⁻¹) at pH 6.0, 24 h equilibrium time and room temperature (293 K).
Fig. S3. ΔG vs T plots for TNT and RDX (initial concentration: 2, 10 and 15 mg L⁻¹) removal by using PGC (0.3 g L⁻¹) at pH 6.0, 24 h equilibrium time and room temperature (293 K).