Supporting Information

Directly coupled dual emitting core based molecular design of thermally activated delayed fluorescent emitters

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(Left: mCBPTrz-1, right: mCBPTrz-2)
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<table>
<thead>
<tr>
<th>Sample name</th>
<th>Nitrogen</th>
<th>Carbon</th>
<th>Hydrogen</th>
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<tbody>
<tr>
<td>mCBP-Trz1</td>
<td>11.8677</td>
<td>83.7546</td>
<td>4.3393</td>
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<td>mCBP-Trz2</td>
<td>9.5487</td>
<td>84.0477</td>
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</tbody>
</table>
\[ \tau_p = 1/k_p \]
\[ \tau_d = 1/k_d \]
\[ k_{ISC} = (1 - \Phi_F) \times k_p \]
\[ k_{RISC} = (k_p k_d / k_{ISC}) \times (\Phi_{TADF} / \Phi_F) \]
\[ k_{rS} = k_p \Phi_F \]
\[ k_{nrT} = k_d - k_{RISC} \Phi_F \]

Equations for the calculation of rate constants