

## Supplementary data

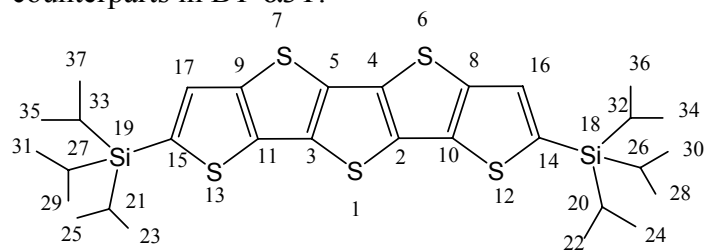
### Effect of ring fusion on the amplified spontaneous emission properties of oligothiophenes

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**Table S1:** B3LYP/6-31G\*\* Values (in Å) for Selected Skeletal Bond Lengths of BT-PTA and their counterparts in BT- $\alpha$ 3T.



Bond	BT-PTA	BT- $\alpha$ 3T
S <sub>1</sub> -C <sub>2</sub>	1.756	1.757
C <sub>2</sub> -C <sub>4</sub>	1.395	1.380
C <sub>4</sub> -C <sub>5</sub>	1.419	1.415
C <sub>4</sub> -S <sub>6</sub>	1.756	
S <sub>6</sub> -C <sub>8</sub>	1.762	
C <sub>8</sub> -C <sub>10</sub>	1.394	1.379
C <sub>10</sub> -C <sub>2</sub>	1.419	1.446
C <sub>10</sub> -S <sub>12</sub>	1.737	1.754
S <sub>12</sub> -C <sub>14</sub>	1.772	1.755
C <sub>14</sub> -C <sub>16</sub>	1.380	1.380
C <sub>16</sub> -C <sub>8</sub>	1.420	1.420
C <sub>14</sub> -Si <sub>18</sub>	1.896	1.897
Si <sub>18</sub> -C <sub>20</sub>	1.921	1.925
C <sub>20</sub> -C <sub>22</sub>	1.541	1.541
C <sub>22</sub> -C <sub>24</sub>	1.540	1.540
Si <sub>18</sub> -C <sub>26</sub>	1.919	1.922
C <sub>26</sub> -C <sub>28</sub>	1.542	1.542
C <sub>26</sub> -C <sub>30</sub>	1.541	1.541
Si <sub>18</sub> -C <sub>32</sub>	1.921	1.925
C <sub>32</sub> -C <sub>34</sub>	1.542	1.542
C <sub>32</sub> -C <sub>36</sub>	1.541	1.541