Correlating On-Substrate Prepared Electrochromes With Their Soluble Processed Counterparts – Towards Validating Polyazomethines as Electrochromes in Functioning Devices

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Electronic Supplementary Information (ESI)

Electronic Supplementary Information (ESI) Available: Complete material characterization data.
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### Table S1. 2° CIE Lab coordinates of polyazomethines in solution.

<table>
<thead>
<tr>
<th>Polymer</th>
<th>State</th>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Neutral</td>
<td>96</td>
<td>9</td>
<td>26</td>
</tr>
<tr>
<td>P1</td>
<td>Oxidized</td>
<td>86</td>
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<td>-0.5</td>
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<tr>
<td>P2</td>
<td>Neutral</td>
<td>83</td>
<td>15</td>
<td>50</td>
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<td>-9</td>
</tr>
<tr>
<td>P3</td>
<td>Neutral</td>
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<td>13</td>
<td>14</td>
</tr>
<tr>
<td>P3</td>
<td>Oxidized</td>
<td>88</td>
<td>-6</td>
<td>0.8</td>
</tr>
</tbody>
</table>

### Table S2. 2° CIE Lab coordinates of solution-made polyazomethines immobilized on ITO coated glass substrates.

<table>
<thead>
<tr>
<th>Polymer</th>
<th>State</th>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Neutral</td>
<td>84</td>
<td>22</td>
<td>34</td>
</tr>
<tr>
<td>P1</td>
<td>Oxidized</td>
<td>69</td>
<td>0.9</td>
<td>13</td>
</tr>
<tr>
<td>P2</td>
<td>Neutral</td>
<td>84</td>
<td>22</td>
<td>16</td>
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<tr>
<td>P2</td>
<td>Oxidized</td>
<td>66</td>
<td>-0.6</td>
<td>9</td>
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<tr>
<td>P3</td>
<td>Neutral</td>
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<td>29</td>
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<tr>
<td>P3</td>
<td>Oxidized</td>
<td>79</td>
<td>-2</td>
<td>5</td>
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</tbody>
</table>

### Table S3. 2° CIE Lab coordinates of on-substrate prepared polyazomethines immobilized on ITO coated glass substrates.

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<thead>
<tr>
<th>Polymer</th>
<th>State</th>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>P_{os}1</td>
<td>Neutral</td>
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<td>25</td>
</tr>
<tr>
<td>P_{os}1</td>
<td>Oxidized</td>
<td>33</td>
<td>-0.6</td>
<td>0.7</td>
</tr>
<tr>
<td>P_{os}2</td>
<td>Neutral</td>
<td>61</td>
<td>51</td>
<td>78</td>
</tr>
<tr>
<td>P_{os}2</td>
<td>Oxidized</td>
<td>27</td>
<td>3.0</td>
<td>1.6</td>
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<tr>
<td>P_{os}3</td>
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<td>1.0</td>
<td>-1.8</td>
</tr>
<tr>
<td>P_{os}6</td>
<td>Neutral</td>
<td>36</td>
<td>39</td>
<td>22</td>
</tr>
<tr>
<td>P_{os}6</td>
<td>Oxidized</td>
<td>19</td>
<td>-0.5</td>
<td>-3.6</td>
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