Supporting Information

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Synthesis and modelling of gold nanostars with tunable morphology and extinction spectrum

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Table SI  Averaged geometrical features of the freshly prepared nanostars for batches NS55 and NS42.5 compared with the same batches after 11 months.

<table>
<thead>
<tr>
<th>batch</th>
<th>core diameter (nm)</th>
<th>branch length (nm)</th>
<th>tip angle (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS55</td>
<td>fresh</td>
<td>68 ± 5</td>
<td>57 ± 19</td>
</tr>
<tr>
<td></td>
<td>after 11 months</td>
<td>88 ± 9</td>
<td>44 ± 21</td>
</tr>
<tr>
<td>NS42.5</td>
<td>fresh</td>
<td>97 ± 6</td>
<td>76 ± 30</td>
</tr>
<tr>
<td></td>
<td>after 11 months</td>
<td>121 ± 7</td>
<td>61 ± 28</td>
</tr>
</tbody>
</table>

Fig. SI1  TEM images of nanostars from batch NS55: (a) freshly prepared and (b) after 11 months. The insets show the main difference between the two cases, that is the increase of tip curvature radius. The two images have the same scale.