Supplementary Information

Parallelized Biocatalytic Scanning Probe Lithography for the Additive Fabrication of Conjugated Polymer Structures

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Supplementary Results

Figure S1. Graph of UV-vis absorbance corresponding to oxidized ABTS against time for assays with the probe arrays. A schematic illustration of the probes tested is shown above the graph, and the inset shows the graph plotted at the scales relevant to the activity of the probes with HRP confined to their tips. The error bars represent the standard error of the mean from technical replicates conducted in triplicate.
Figure S2. Graphs showing cross sections of topographic surface showing features with an average fwhm of 489 nm.
Figure S2 (continued). Graphs showing cross sections of topographic surface showing features with an average fwhm of 489 nm.
Figure S2 (continued). Graphs showing cross sections of topographic surface showing features with an average fwhm of 489 nm.

Figure S3. Graphs showing cross sections of topographic surface showing features with an average fwhm of 162 nm.
Figure S3 (continued). Graphs showing cross sections of topographic surface showing features with an average fwhm of 162 nm.
Figure S3 (continued). Graphs showing cross sections of topographic surface showing features with an average FWHM of 162 nm.
Table S1. Assignments for Raman shift of bond vibrations for 4-ATP and poly-2-methoxyaniline on gold substrates.

<table>
<thead>
<tr>
<th>Bond vibration</th>
<th>Raman shift (cm(^{-1}))</th>
<th>Bond vibration</th>
<th>Raman shift (cm(^{-1}))</th>
</tr>
</thead>
<tbody>
<tr>
<td>δ (ring)</td>
<td>1088</td>
<td>δ (ring) (quinoid)</td>
<td>1599</td>
</tr>
<tr>
<td>υ (C–C)</td>
<td>1593</td>
<td>υ (C=NH(^+)) (quinoid)</td>
<td>1520</td>
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<tr>
<td></td>
<td></td>
<td>υ (C–N(^+)) (quinoid)</td>
<td>1398</td>
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<tr>
<td></td>
<td></td>
<td>υ (C-O-C)</td>
<td>1140</td>
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