Supplementary scheme and figures

Scheme S1: Chemical structure of allura red.

Figure S1- CVs of observed during the electropolymerisation of ALR on GCE. 1.0 mM solution of ALR with 0.1M NaOH at 10 cycles with 0.1 V s⁻¹ scan rate.

Figure S2A- CVs for bare GCE (curve a) and ALR/GCE (curve b) in 1mM of [Fe(CN)₆]⁴⁻/₃⁻ with 1M KCl and 0.05 V s⁻¹ scan rate.

Figure S2B - SEM images for bare GCE (a) and ALR/GCE (b)

Figure S3- (A) Ipa versus υ of CC (B) Ipa versus υ of HQ (C) Ipa versus υ¹/² of CC and (D) Ipa versus υ¹/² of HQ.

![Scheme S1](image-url)
Figure S3B

Figure S3C

\[ I_{pa}(10^{-6} \text{A}) = 26.601 (v \text{ mVs}^{-1}) + 4.6045 \]
\[ r^2 = 0.9949 \]

\[ I_{pa}(10^{-5} \text{A}) = 2.3982 (v^{1/2} \text{ mVs}^{-1}) + 0.4217 \]
\[ r^2 = 0.9909 \]
$I_{pa}(10^{-6}A) = 16.7013 (v^{0.5 \text{ mVs}^{-1}}) + 2.2606$

$r^2 = 0.9902$

Figure S3D