

Supporting information

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From Maya Blue to Biomimetic Pigments: Durable Biomimetic Pigments with Self-Cleaning Property

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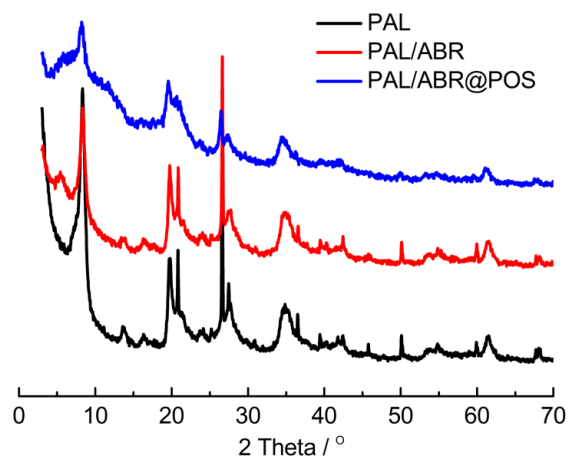


Fig. S1. XRD patterns of PAL, PAL/ABR and PAL/ABR@POS. $C_{\text{HDTMS}} = 0.14 \text{ M}$ and $C_{\text{TEOS}} = 0.14 \text{ M}$.

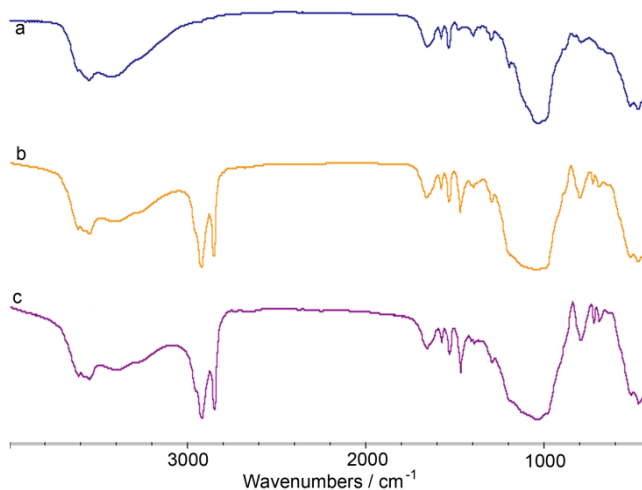


Fig. S2. FTIR spectra of PAL/ABR@POS prepared with a C_{HDTMS} of (a) 0, (b) 0.14 and (c) 0.235 M. $C_{\text{TEOS}} = 0.14 \text{ M}$.

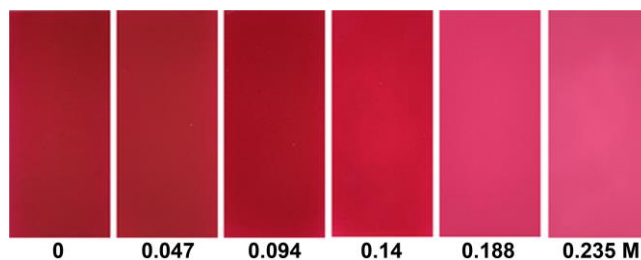


Fig. S3. Digital images of the PAL/ABR@POS coatings prepared with different C_{TEOS} . $C_{\text{HDTMS}} = 0.14 \text{ M}$.

Movie S1. Wetting behavior of the PAL/ABR and PAL/ABR@POS pigments. This video highlights the evident difference in wettability between PAL/ABR and PAL/ABR@POS.

Movie S2. Water jetting on the surface of the superhydrophobic PAL/ABR@POS pigment.

Movie S3. Self-cleaning property of the PAL/ABR@POS pigment.

Movie S4. Stability tests of the PAL/ABR and PAL/ABR@POS pigments using 98% H_2SO_4 and 60% NaOH. This video highlights the evident difference in stability between PAL/ABR and PAL/ABR@POS.