



Supporting Information

for

Clays enhanced with niobium: potential in wastewater treatment and reuse as pigment with antibacterial activity

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Beilstein J. Nanotechnol. **2025**, *16*, 141–154. doi:10.3762/bjnano.16.13

Additional figures

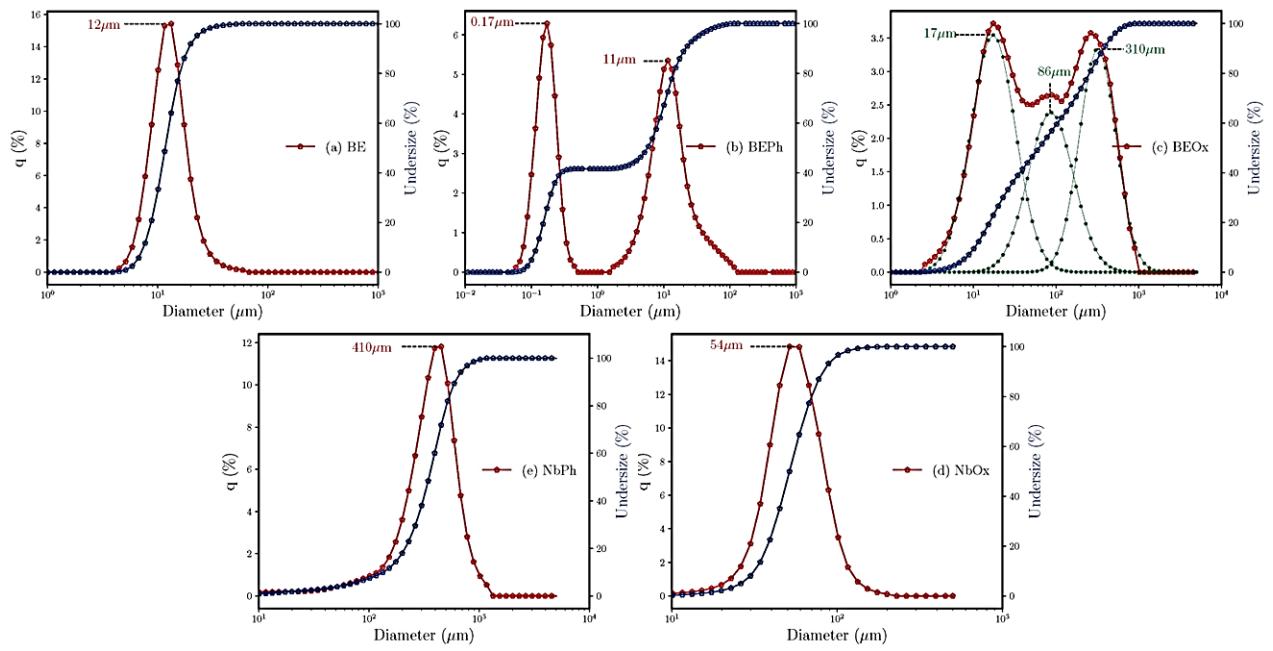


Figure S1: Particle size distribution for the samples BE (a), BEPh (b), BEOx (c), NbPh (d), and NbOx (e).

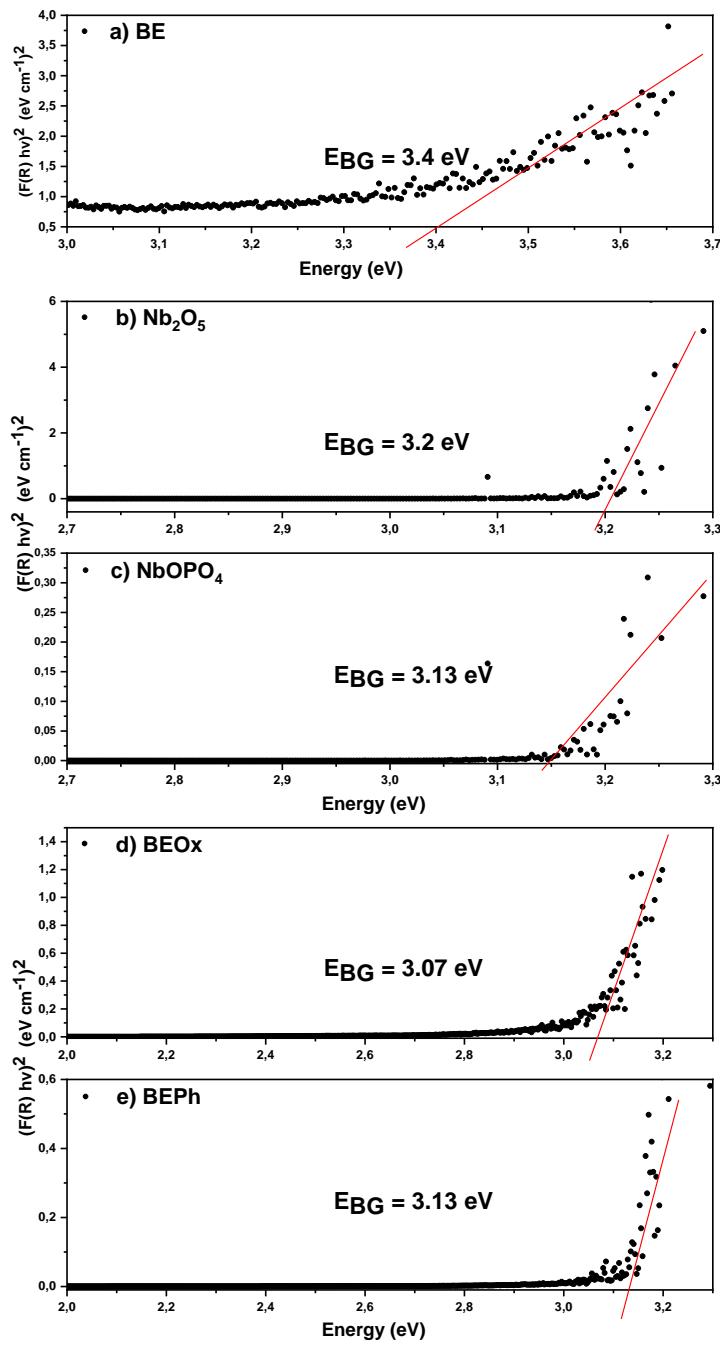


Figure S2: Kubelka–Munk spectra of the samples BE (a), Nb₂O₅ (b), NbOPO₄ (c), BEOx (d), and BEPh (e).

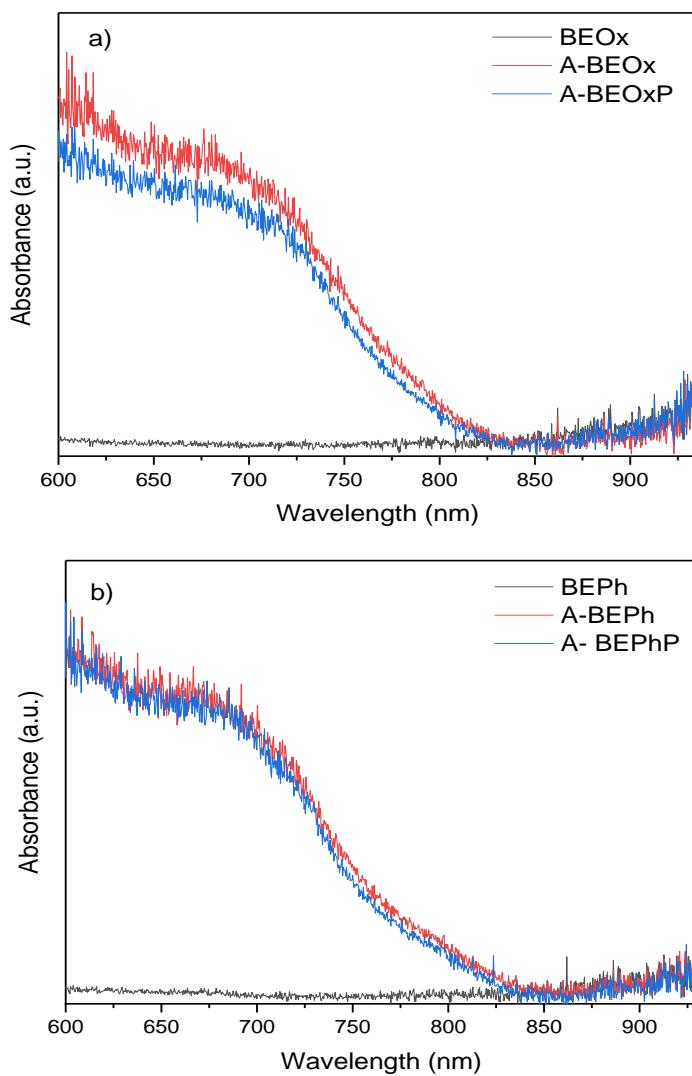


Figure S3: Absorbance spectra in the visible region for the bentonite samples modified with niobium oxide (a) and niobium phosphate (b) dispersed in colorless paint.

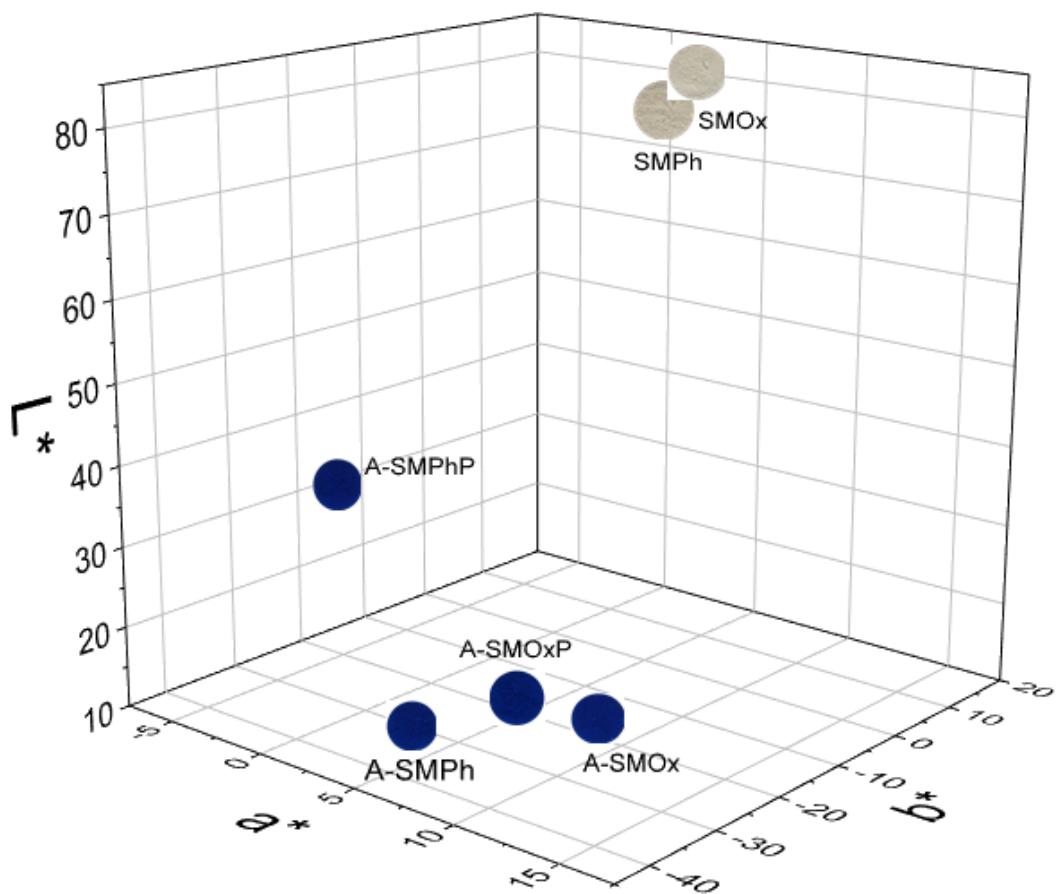


Figure S4: A graph of the CIEL*a*b* system highlighting the colorimetric changes of the BEPh and BEOx samples, obtained before and after the adsorption/photocatalysis process of MB in powder form.

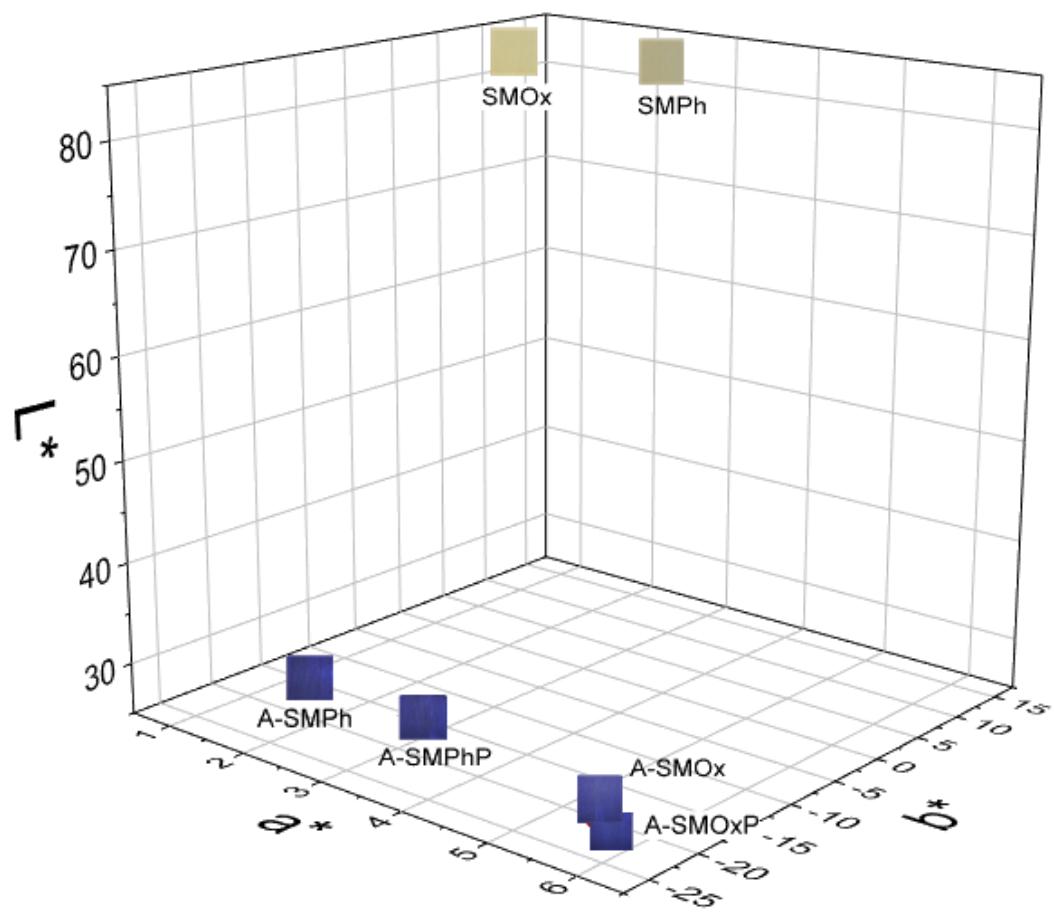


Figure S5: A graph of the CIEL*a*b* system highlighting the colorimetric changes of the BEPh and BEOx samples, obtained before and after the adsorption/photocatalysis process of MB as a pigment dispersed in clear paint.