Supporting information

**An efficient and robust exfoliated bentonite/Ag\textsubscript{3}PO\textsubscript{4}/AgBr plasmonic photocatalyst for degradation of parabens**

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![Graph](image_url)

**Fig. S1.** The effect of the ratio of AgBr to Ag\textsubscript{3}PO\textsubscript{4} in different mass ratio on the degradation of MPB.
Table S1. Textural properties of the samples

| Name                  | BET/(m²/g) | Pore volume/(cm³/g) | Average aperture/(Å) |
|-----------------------|------------|---------------------|----------------------|
| Exfoliated-bentonite  | 16.3595    | 0.022304            | 43.185               |
| EB/Ag₃PO₄             | 4.5035     | 0.029572            | 47.788               |
| EB/Ag₃PO₄/AgBr        | 13.2130    | 0.057100            | 100.378              |

Fig. S2. Transient photocurrent response for the EB/Ag₃PO₄/AgBr (30%) hybrids under visible light irradiation;
Fig. S3 Relationship curves between irradiation time and C/C₀ for MBP, EPB, PPB and BuPB on EB/Ag₃PO₄/AgBr (30%) composites.
Fig. S4. UV-vis spectra changes of (a) MPB, (b) EPB, (c) PPB, (d) BuPB solution during the photocatalytic degradation by the as-prepared photocatalyst in visible light illumination.

Fig. S5. Photodegradation pathways of methylparaben