Fabrication of Titanium Phosphate@Graphene Oxide Nanocomposite and its Super Performance on Eu$^{3+}$ Recycling

Chaoran Li, a Yang Huang, a and Zhang Lin a*

a State Key Laboratory of Structures, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou, Fujian, 350002, China

*E-mail: zlin@fjirsm.ac.cn. Tel/Fax: (+086)591-83705474.
Figure S1. XPS spectra of TiP. Wide scan (below), P 2p spectra (upper left), Ti 2p spectra (upper right).

Figure S2. N$_2$ adsorption–desorption isotherms of TiP, GTiP-1 and GTiP-2 at 77 K
\[
\frac{20 \times \text{GTiP-1} - (1 \times \text{GO} + 19 \times \text{TiP})}{(1 \times \text{GO} + 19 \times \text{TiP})} \times 100\%
\]

\[
= \frac{20 \times 35.21 - (1 \times 20.62 + 19 \times 16.02)}{(1 \times 20.62 + 19 \times 16.02)} \times 100\%
\]

\[= 116.6\% \quad (\text{S1})\]

Figure S3. SEM images of GTiP-1 which are a) fresh and b) regenerated samples.