

# Supplementary Materials: Sunlight-Activated Long Persistent Luminescent Coating for Smart Highways

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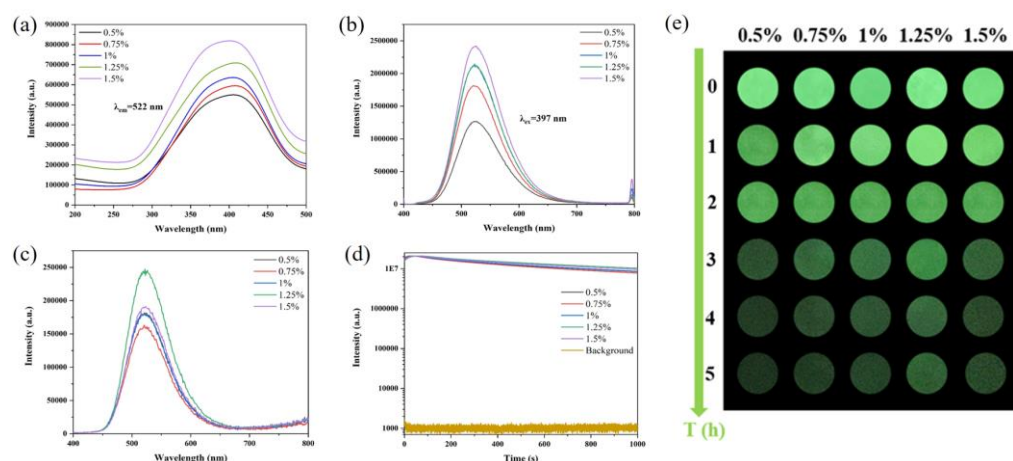
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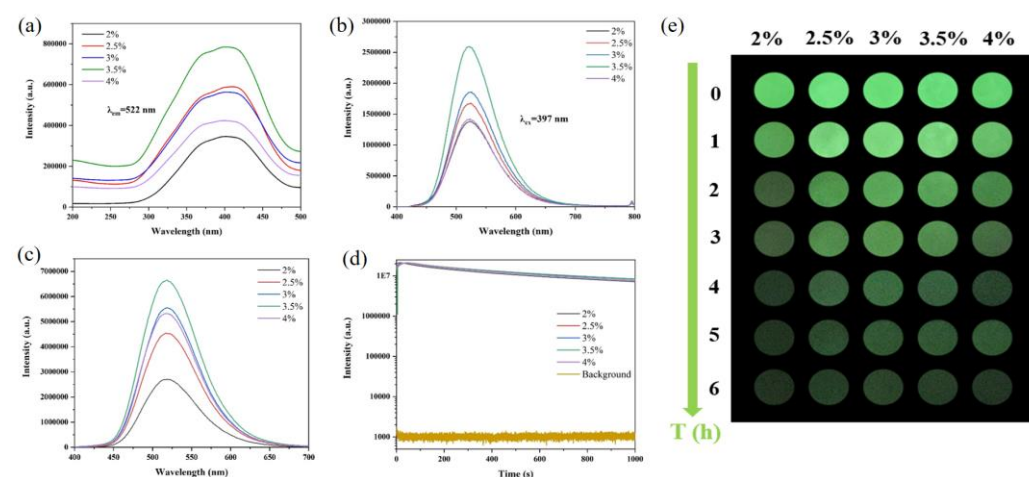
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**Figure S1.** (a) PLE spectra, and (b) PL spectra of luminescent coatings with different SiO<sub>2</sub> contents. (c) Afterglow spectra, and (d) Afterglow decay curves of luminescent coatings with different SiO<sub>2</sub> contents obtained after 5 min illumination with 365 nm UV light. (e) Afterglow images of luminescent coatings taken after sunlight excitation for 2 h with different SiO<sub>2</sub> contents.



**Figure S2.** (a) PLE spectra, and (b) PL spectra of luminescent coatings with different CaCO<sub>3</sub> contents. (c) Afterglow spectra, and (d) Afterglow decay curves of luminescent coatings with different CaCO<sub>3</sub> contents obtained after 5 min illumination with 365 nm UV light. (e) Afterglow images of luminescent coatings taken after sunlight excitation for 2 h with different CaCO<sub>3</sub> contents.