

Supporting Information

Role of Ce³⁺ doping in the photochromic and storage properties of Ca₃MgSi₂O₈

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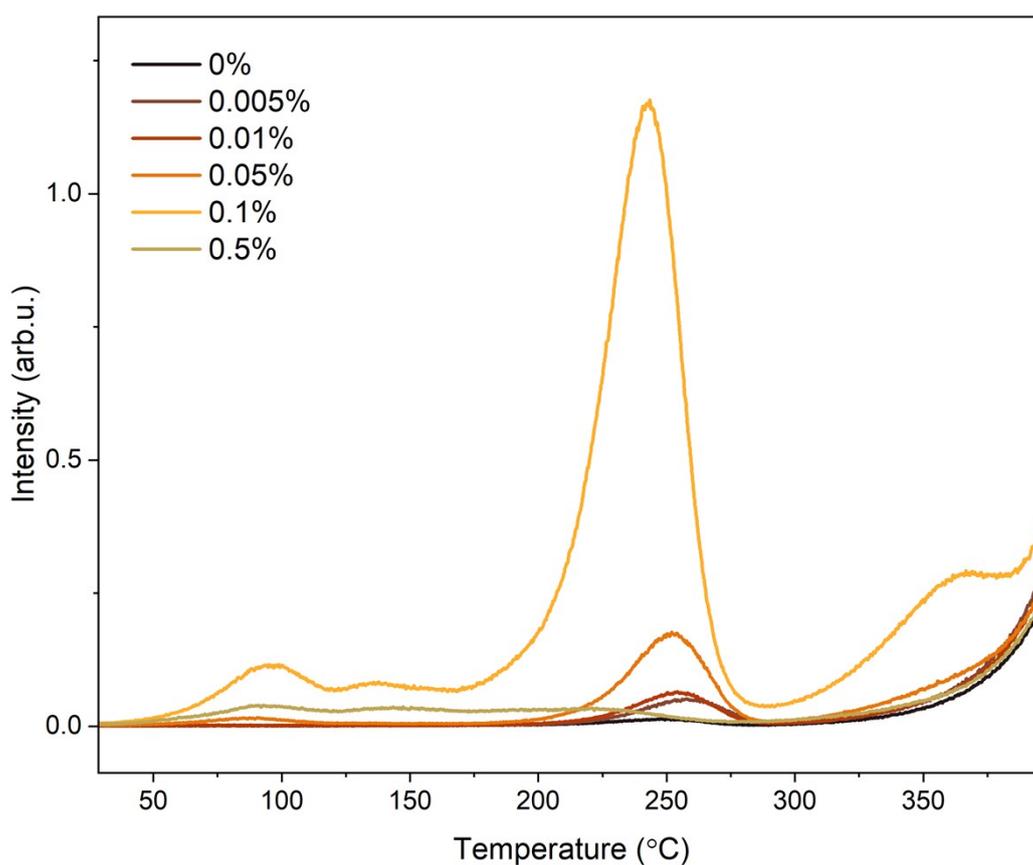


Fig. S1. TSL glow curves of CMS samples after irradiation with UV.

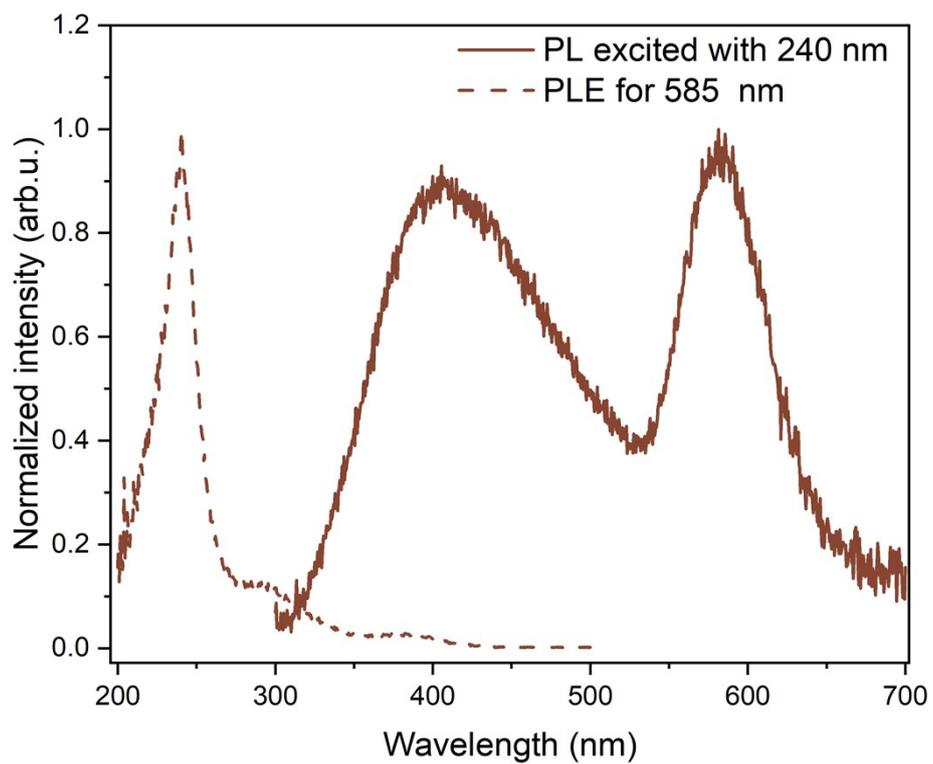


Fig. S2. PL spectra excited with 240 nm and PLE spectra for 585 nm emission of CMS 0%.

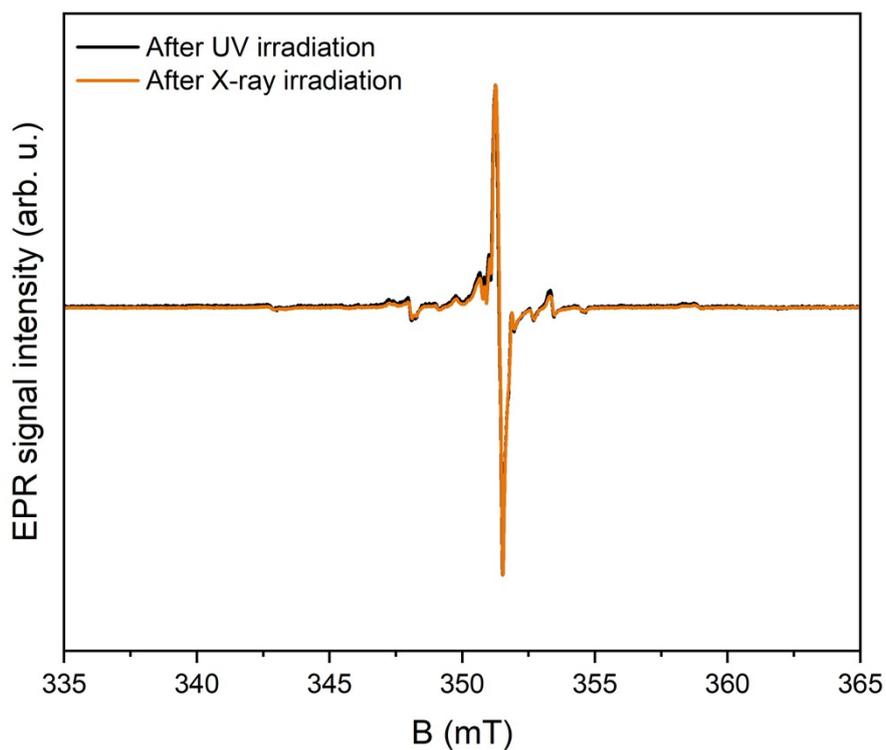


Fig. S3. Normalized EPR spectra comparison of the CMS: 0.1% sample after UV and X-ray irradiation.

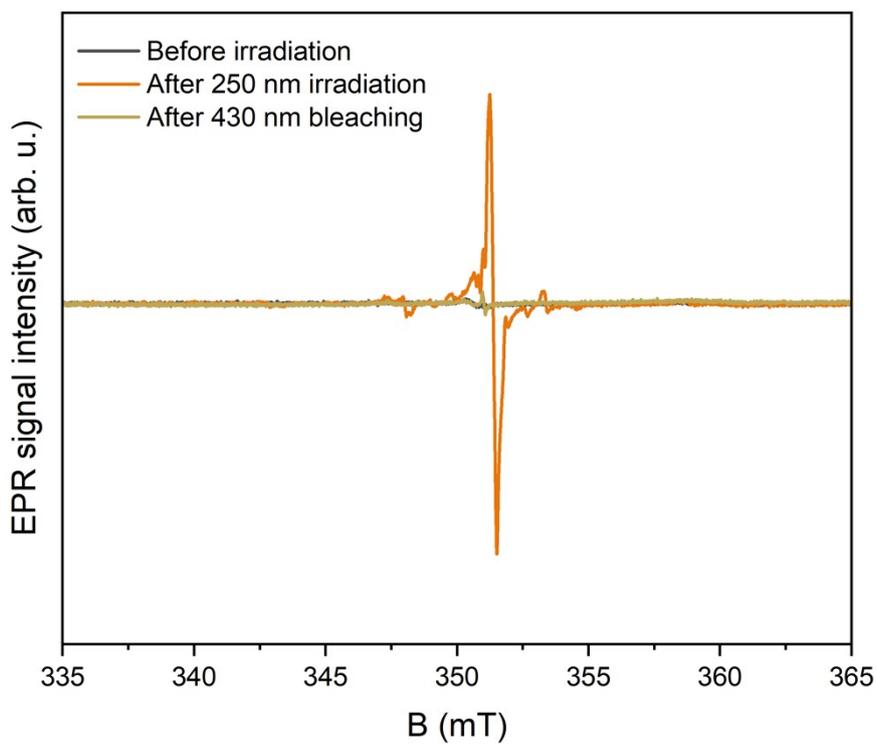


Fig. S4. EPR spectra of the CMS: 0.1% before irradiation, after 250 nm irradiation, and after bleaching with 430 nm.

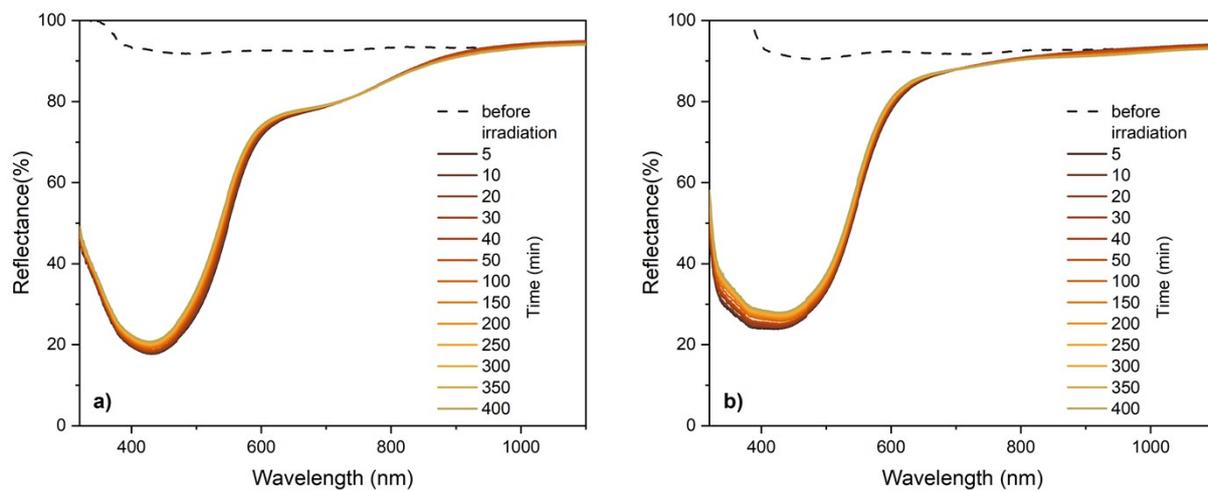


Fig. S5. Diffuse reflectance spectra of a) CMS 0% and b) CMS 0.5% after 250 nm irradiation and after storage of the sample in the dark for selected time intervals at room temperature.