

Electronic Supplementary Information

Self-healing and easy to shape mineralized hydrogels for iontronics

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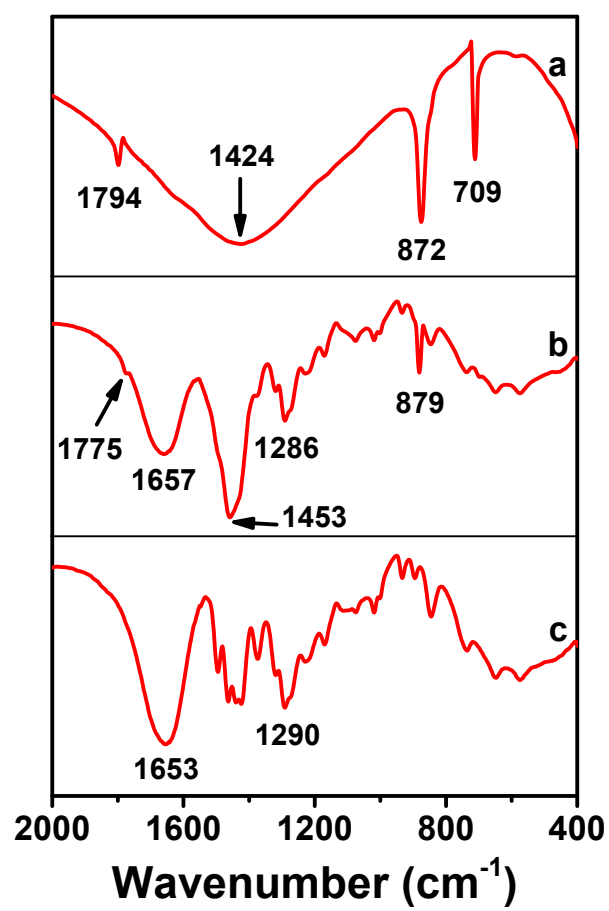


Fig. S1 IR spectra of (a) CaCO_3 , (b) PVP-Ca 15-0.3 and (c) PVP.



Fig. S2 Photographs of the PVP-Ca 15-0.3 hydrogels immersed in distilled water and 1 mol L⁻¹ Na₂CO₃ aqueous solution.

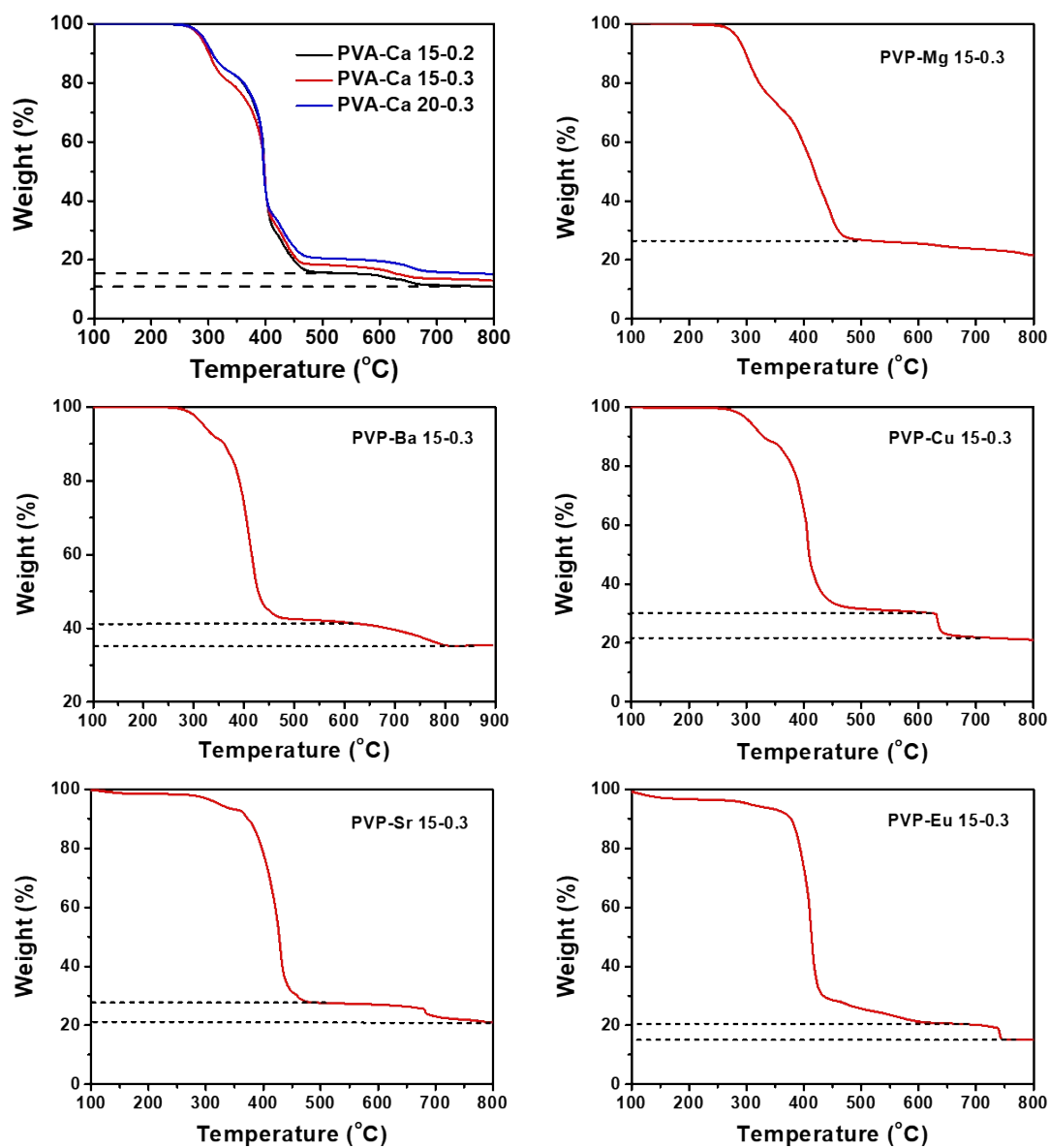


Fig. S3 TG curves of the mineralized hydrogels under an air atmosphere.

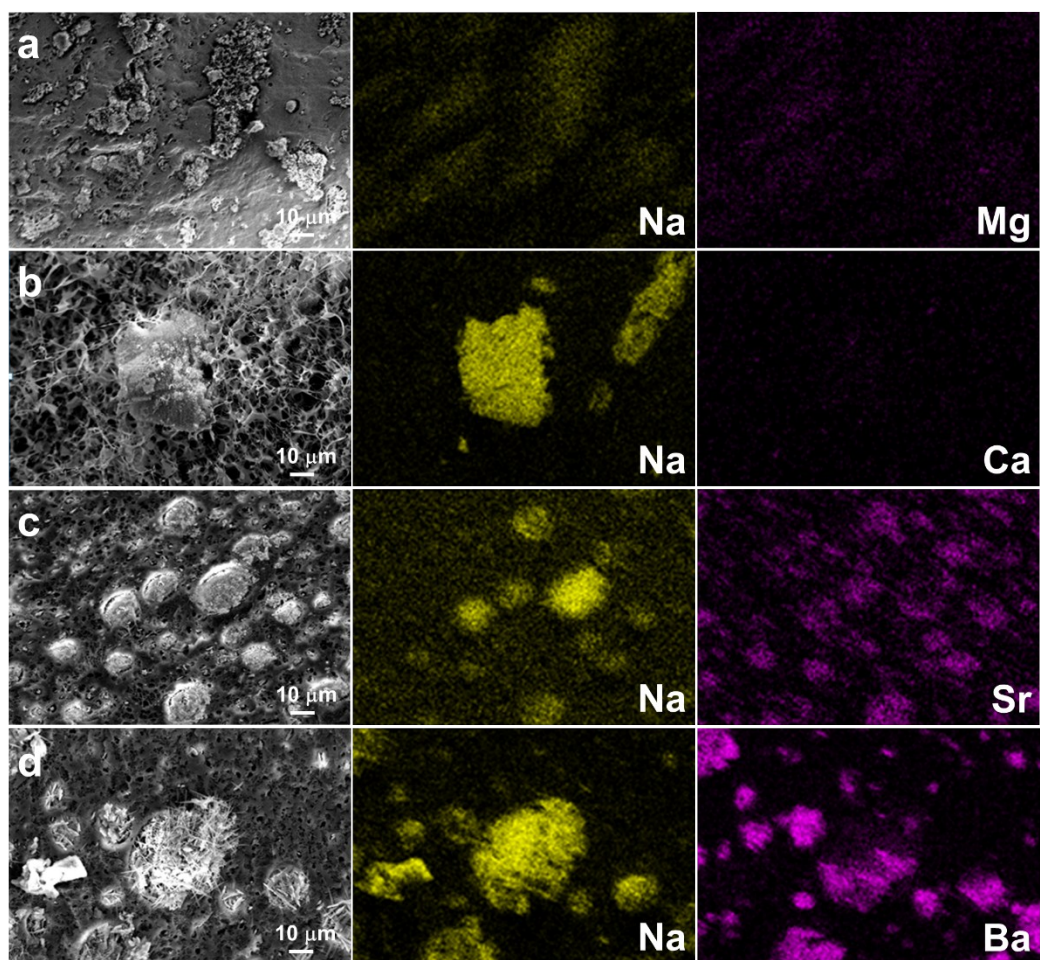


Fig. S4 SEM images and the corresponding elemental mapping of the mineralized hydrogels: (a) PVP-Mg 15-0.3, (b) PVP-Ca 15-0.3, (c) PVP-Sr 15-0.3, (d) PVP-Ba 15-0.3.

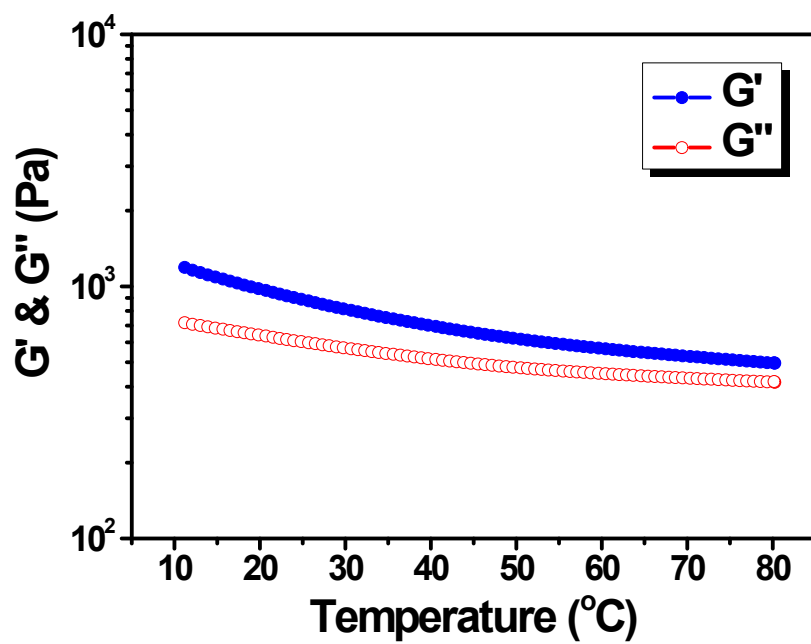


Fig. S5. Dependence of temperature on the G' and G'' of PVP-Ca 15-0.3.

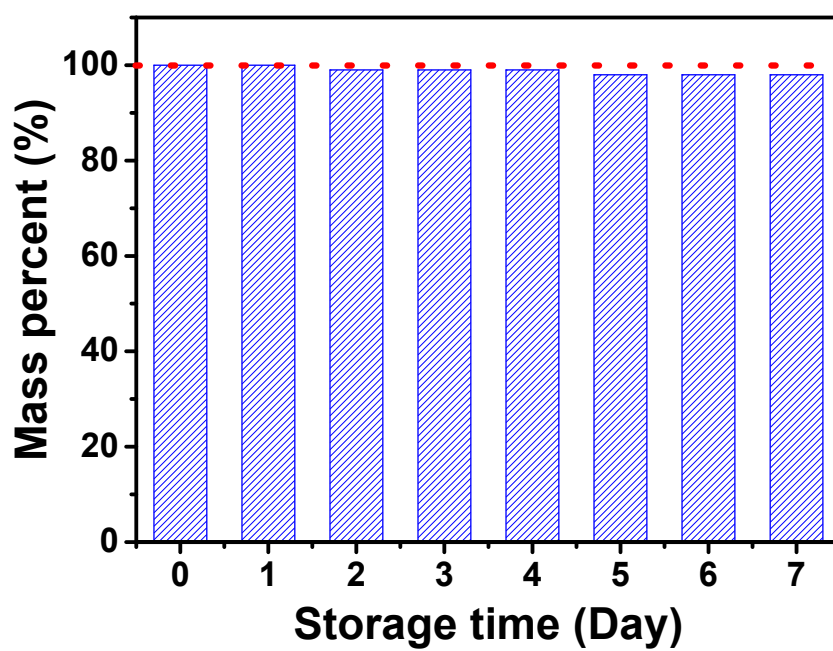


Fig. S6 Dependence of the mass change of the PVP-Ca 15-0.3 hydrogels sealed with two VHB tape on the storage time at 25 °C.