

A competitive reaction strategy toward dielectric phases for enhancing electromagnetic wave absorption of polymer-derived ceramics

Shuhao Hu, Pingan Chen*, Xiangcheng Li**, Yingli Zhu, Boquan Zhu

The State Key Laboratory of Refractories and Metallurgy

Key Laboratory of High Temperature Electromagnetic Materials and Structure of

MOE

Wuhan University of Science and Technology, Wuhan 430081, PR China

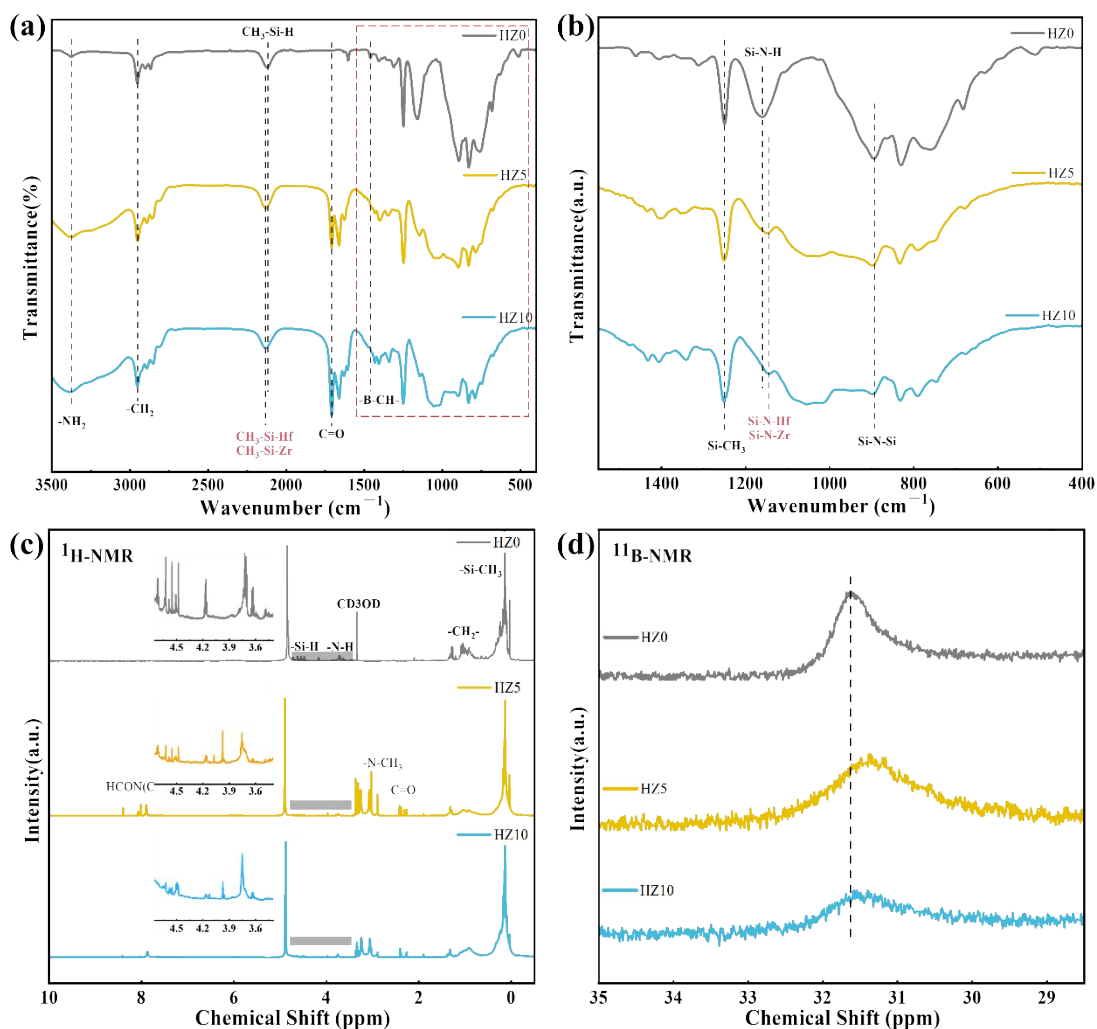


Fig. S1 Structural characterization of HfZr-PBSZ. (a, b) FT-IR spectra, (c) $^1\text{H-NMR}$ spectra, (d) $^{11}\text{B-NMR}$ spectra

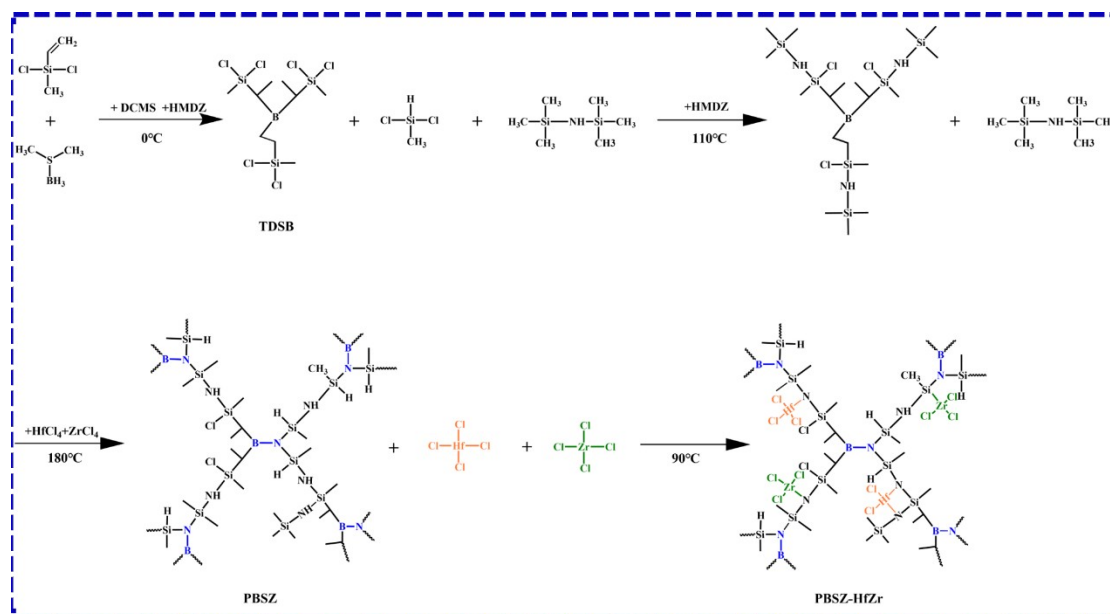


Fig. S2 Synthesis route for HfZr-PBSZ

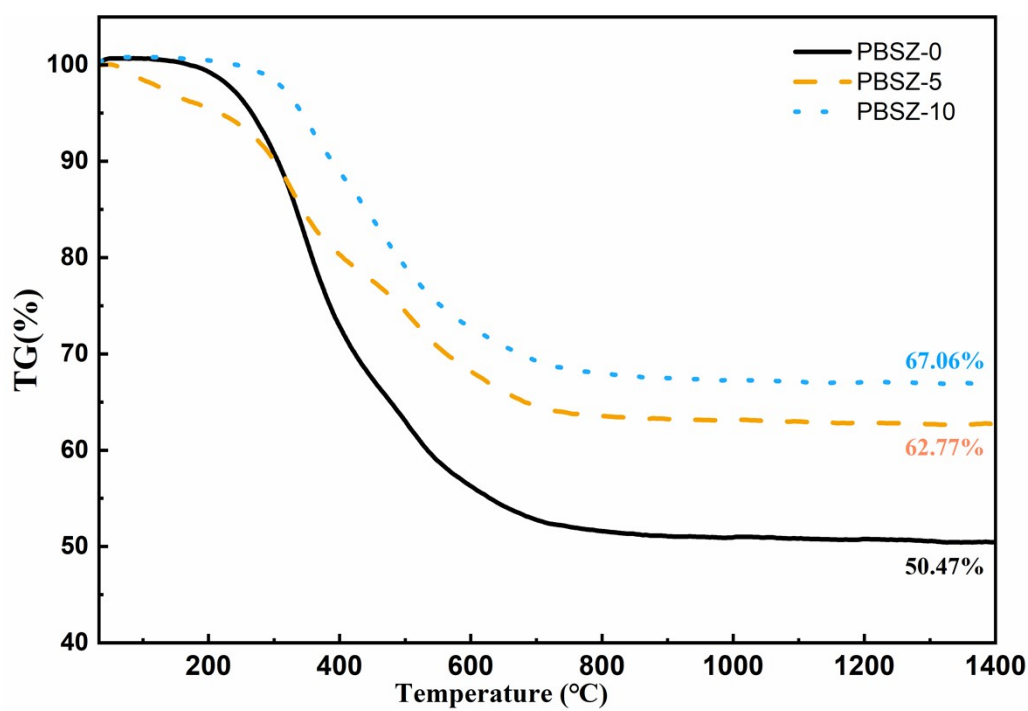


Fig. S3 TG curves of HfZr-PBSZ

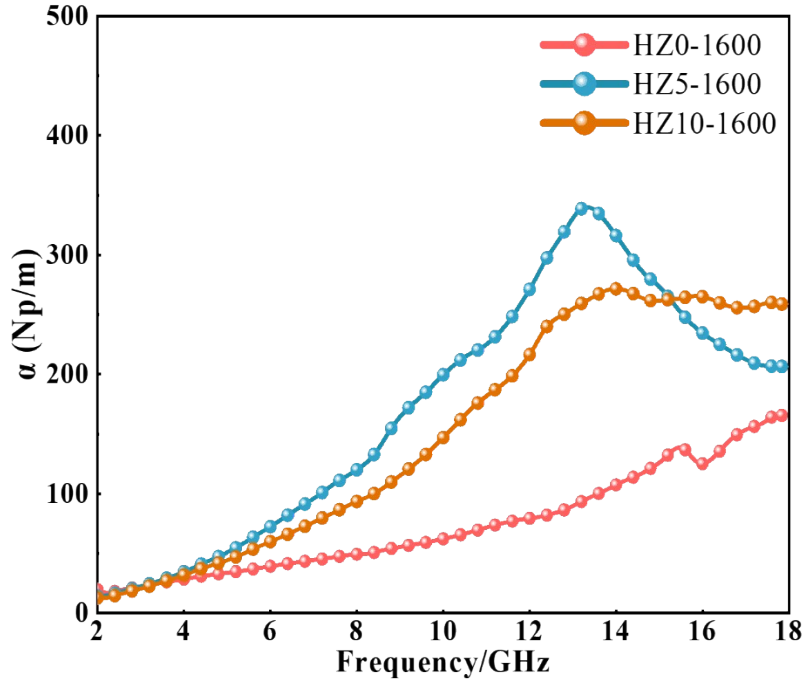


Fig. S4 Microwave attenuation constant curves of the SiHfZrBCN ceramics