

Electronic Supplementary Material

Directed growth of robust zeolite coatings on silicon carbide foams

via microwave selective heating and silica sol pretreatment

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Fig.S1 Schematic illustration of the synthesis process for preparing NaA@SiC.

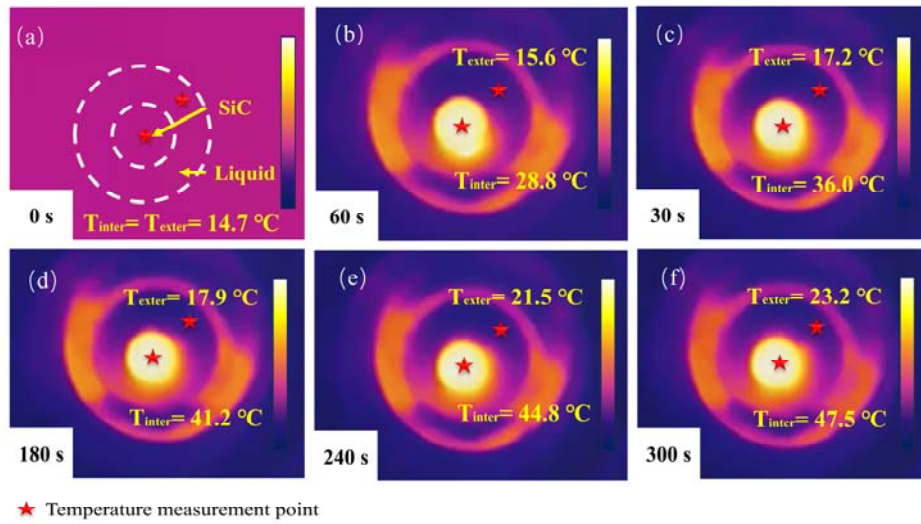


Fig.S2 Time-dependent in-situ infrared thermal images

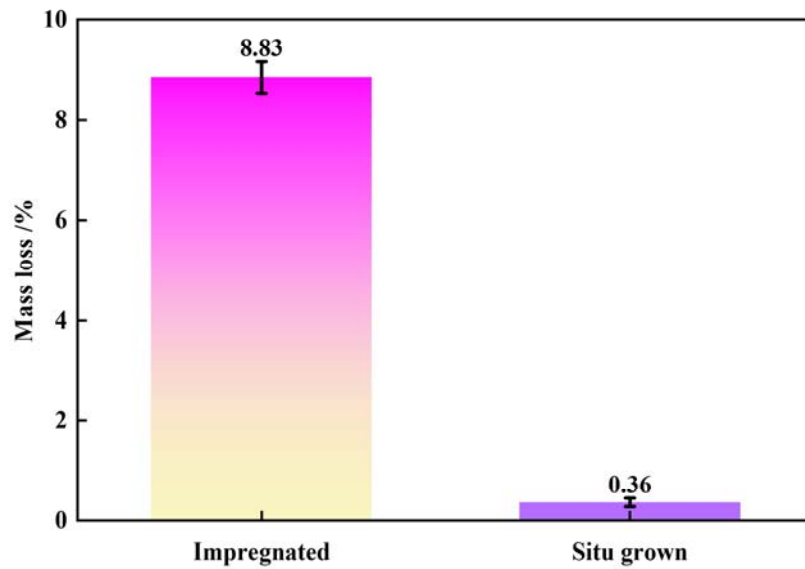


Fig.S3 Quality loss following ultrasonic treatment under different growth conditions

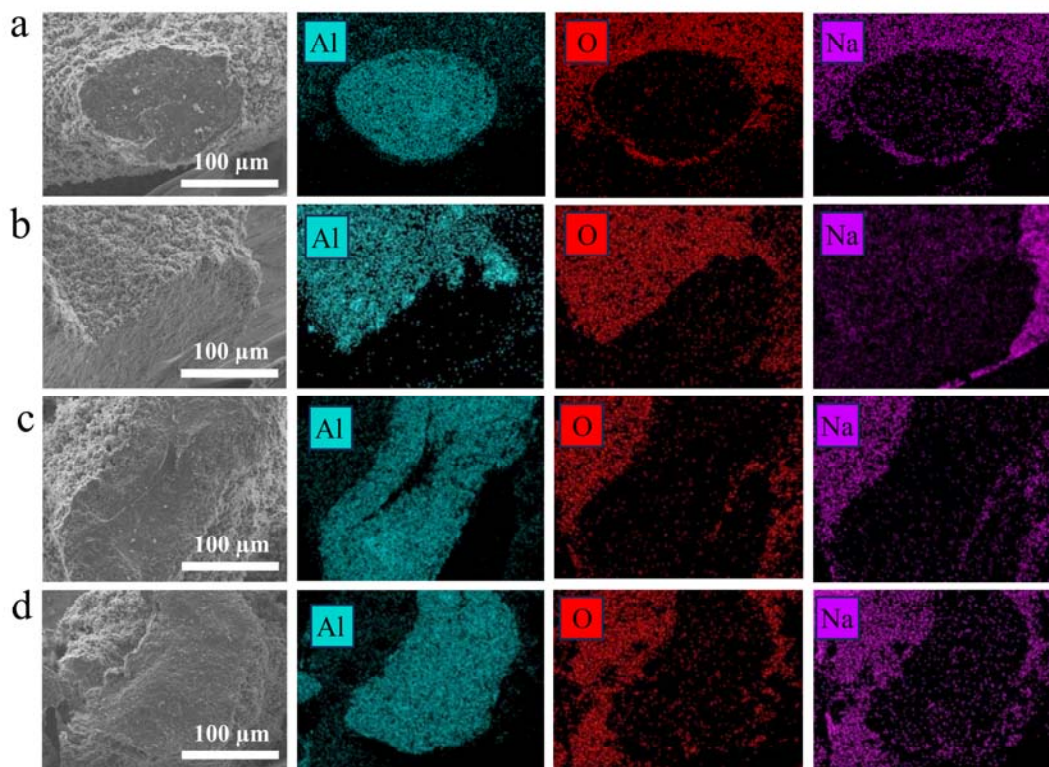


Fig.S4 SEM image and elemental mapping of NaA@SiC, all are cross-sectional views after four load cycles: (a)No pretreatment;(b) Calcination pretreatment;(c) Slurry pretreatment;(d) Silica sol pretreatment.