

ADVANCED FUNCTIONAL MATERIALS

Supporting Information

for

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Supporting Information

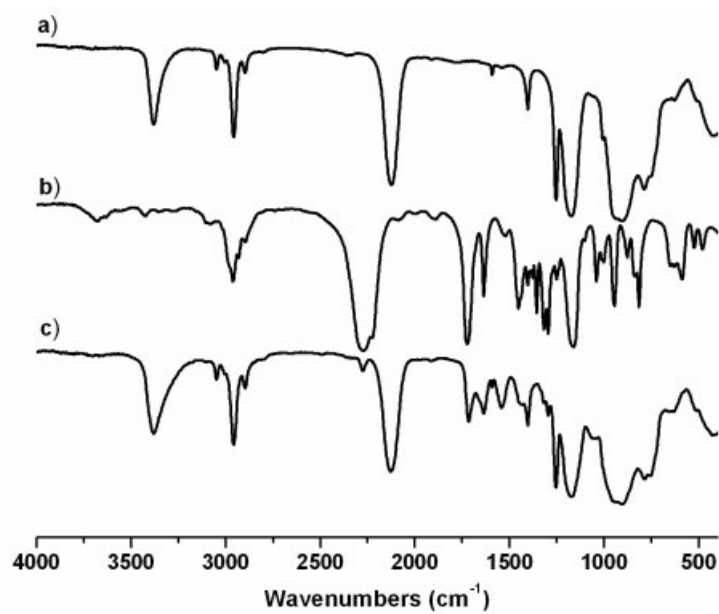


Figure 1s. FT-IR spectra of: a) initial polyvinylsilazane, b) isocyanatoethyl methacrylate, c) functionalized polyvinylsilazane.

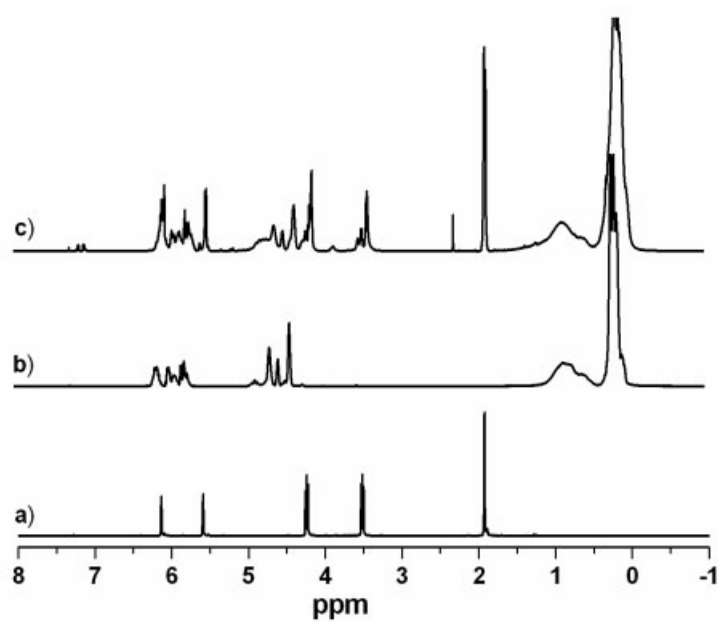


Figure 2s. ^1H NMR of: a) isocyanato-ethyl methacrylate, b) initial polyvinyl-silazane, c) functionalized polyvinyl-silazane.

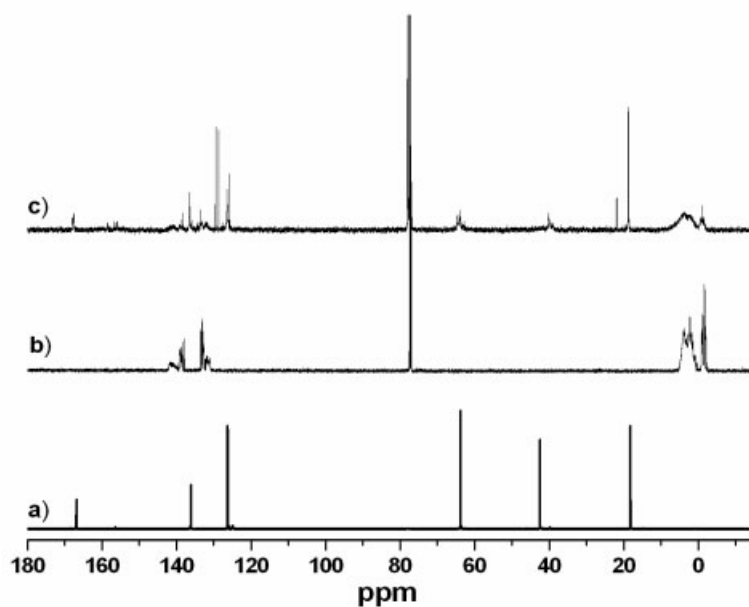


Figure 3s. ^{13}C NMR of: a) isocyanato-ethyl methacrylate, b) initial polyvinyl-silazane, c) functionalized polyvinyl-silazane.

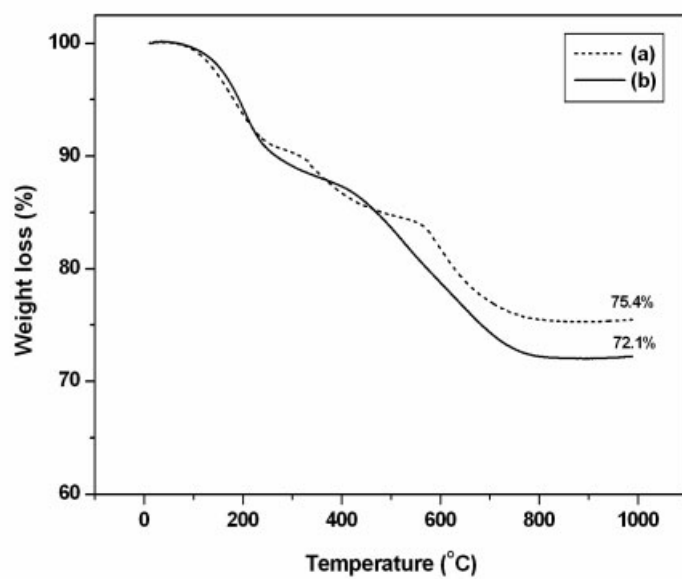


Figure 4s. TGA curves for: a) initial polyvinylsilazane, b) functionalized polyvinylsilazane.

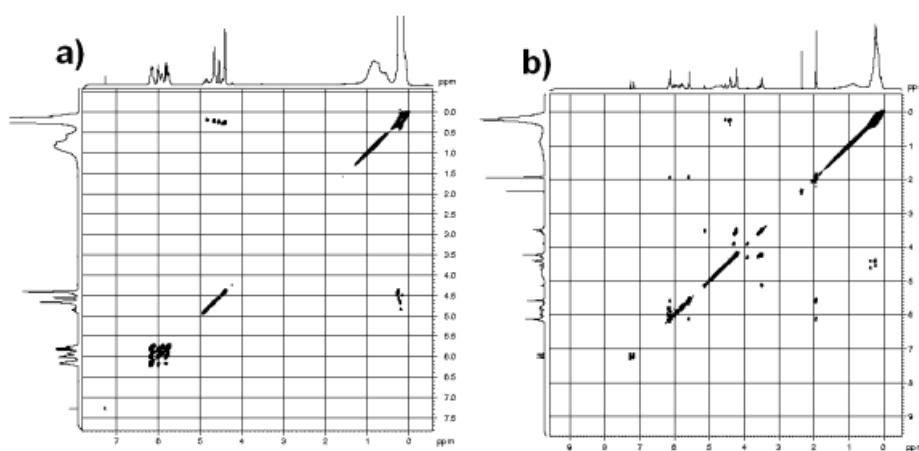


Figure 5s. COSY spectra of: a) initial polyvinylsilazane, b) functionalized polyvinylsilazane.

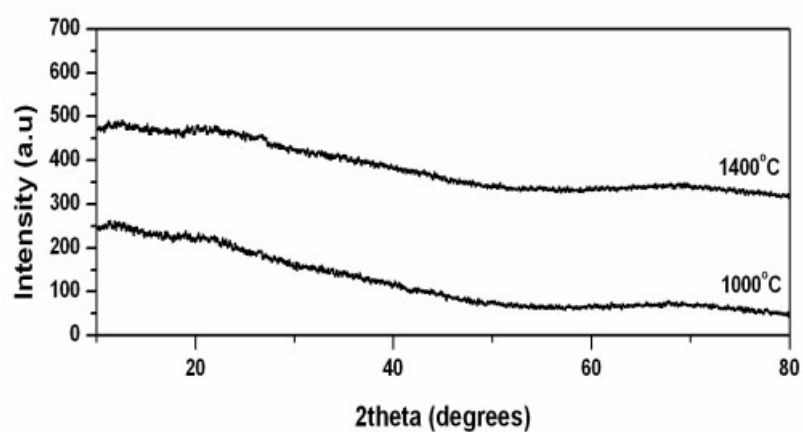


Figure 6s. XRD spectra of polymer-derived SiCN ceramic prepared at 1000°C and 1400°C.

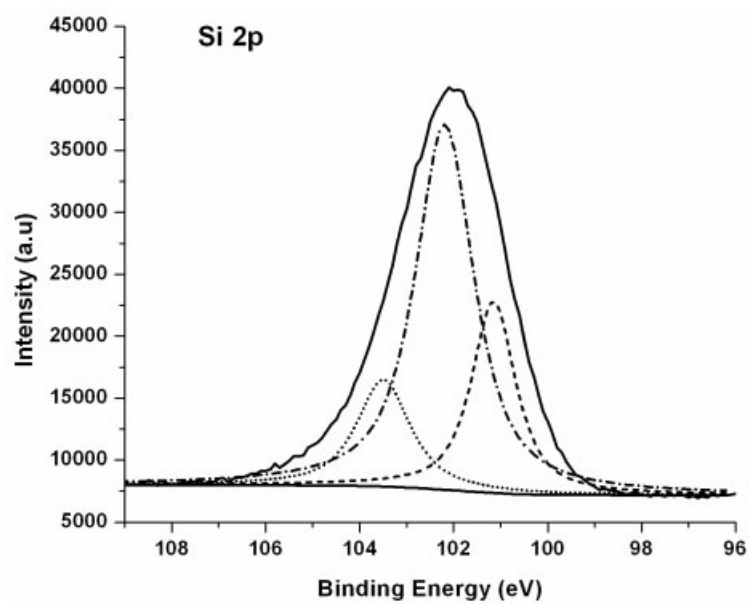


Figure 7s. XPS spectra of polymer-derived SiCN ceramic prepared at 1000°C.

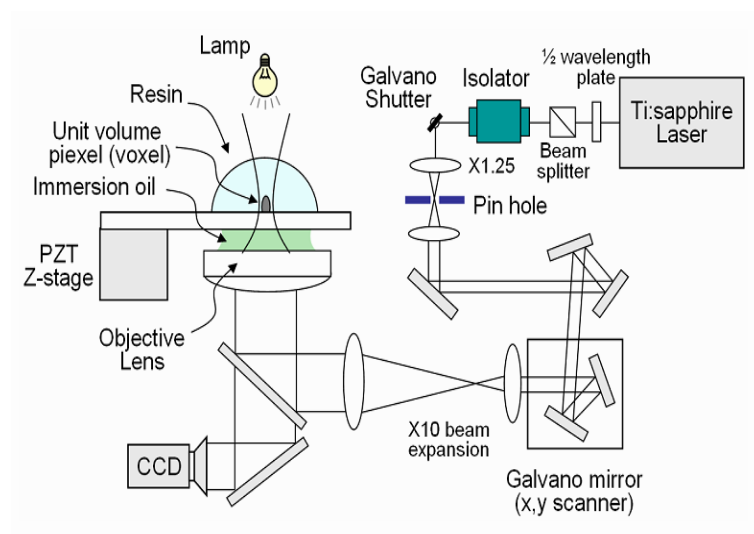


Figure 8s. Schematic diagram of nano-stereolithography.