Electronic Supplementary Material (ESI) for Materials Advances.

High Mechanical Enhanced and Degradable Polybenzoxazine/Polyhexahydrotriazine IPN Aerogels by Atmospheric Drying

Yi Xu,a,b* Keqi Zhu,a,b Xinyue Sun,a,b Shumin Xu, a,b Changhui Liu, a,b Zhengbai Li,a,b Shenghua Xiong,a,b Chao Li,c*

a. College of Civil Aviation Safety Engineering, Civil Aviation Flight University of China, Guanghan 618307, China

b. Civil Aircraft Fire Science and Safety Engineering Key Laboratory of Sichuan Province, Civil Aviation Flight University of China, Guanghan 618307, China

c. Chengdu BOE Optoelectronics Technology Co., Ltd., Chengdu 611731, China

*Corresponding authors: xuyi99@cafuc.edu.cn (Yi Xu), lichao_scu@qq.com (Chao Li);.

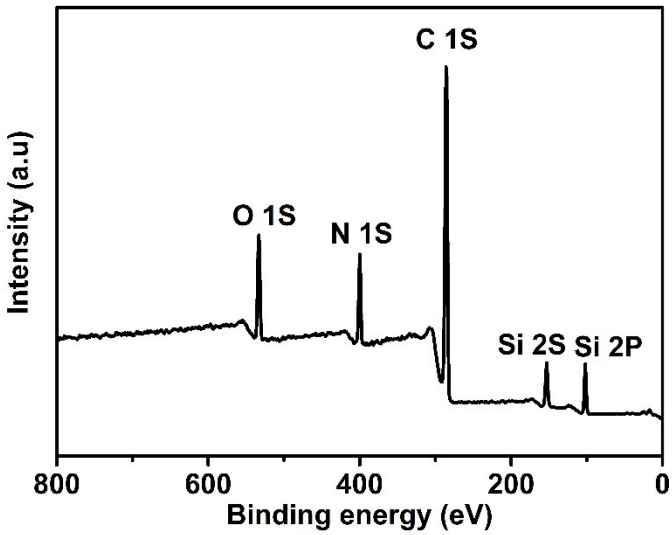

Figure S1. XPS survey spectra of BOZ/Si-PHT-0.3

Table S1. Component peaks and attributions of XPS spectra for BOZ/Si-PHT-0.3

Peak No	Binding energy (eV)	Functionality
C 1s	284.8	C-H
	285.5	C-N
	286.3	C-OH
O 1s	532.6	Si-O
	533.8	Ar-O
N 1s	399.8	Ar-N
	400.6	C-N
Si 2s	153.3	Si-C
Si 2p	102.0	Si-O

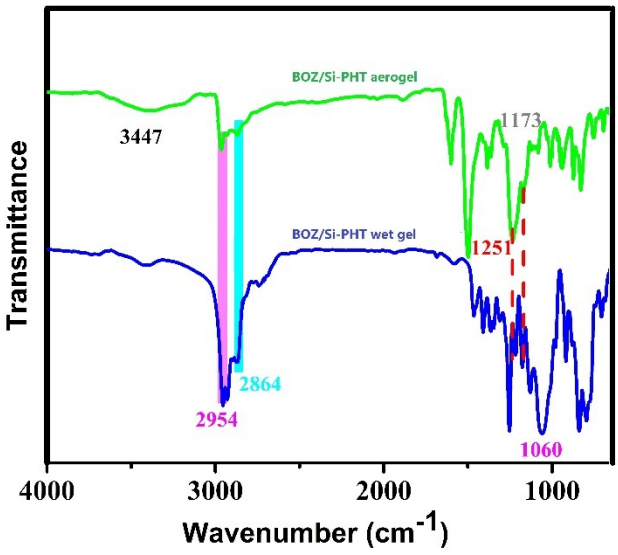

Figure S2. XPS survey spectra of BOZ/Si-PHT-0.3

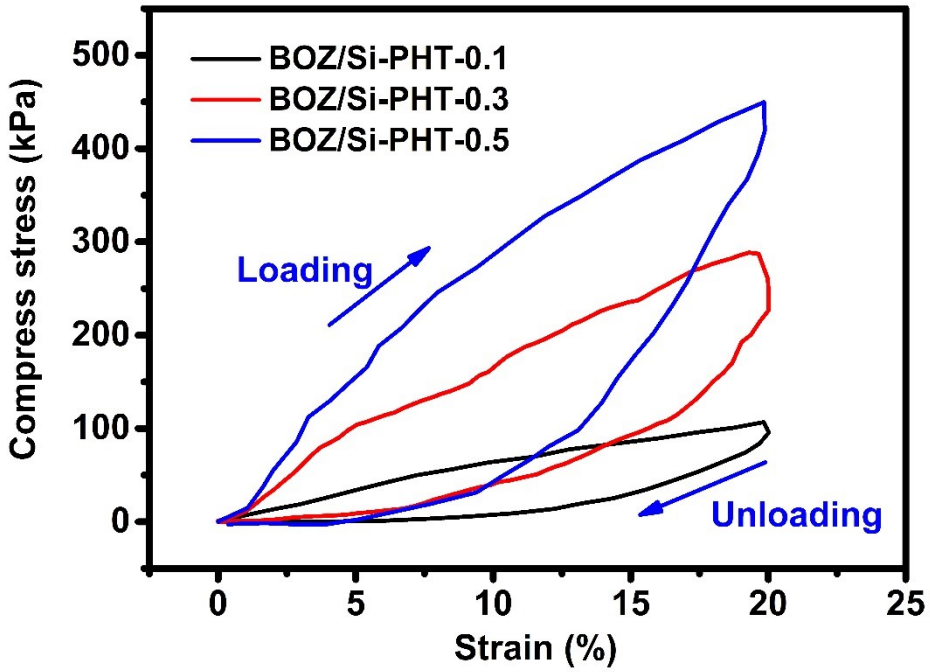

Figure S3. Cyclic compress curves of BOZ/Si-PHT aerogels

Table S2. Mechanical properties of BOZ/Si-PHT aerogels

Sample	Compress stress (kPa)	Compress modulus (GPa)
BOZ/Si-PHT-0.1	106.7	0.45
BOZ/Si-PHT-0.3	288.4	0.76
BOZ/Si-PHT-0.5	449.6	1.26