

Supporting Information

Construction of partially rGO multifunctional aerogel with multi-stage pores for hydrophobicity, thermal insulation and efficient microwave absorption property

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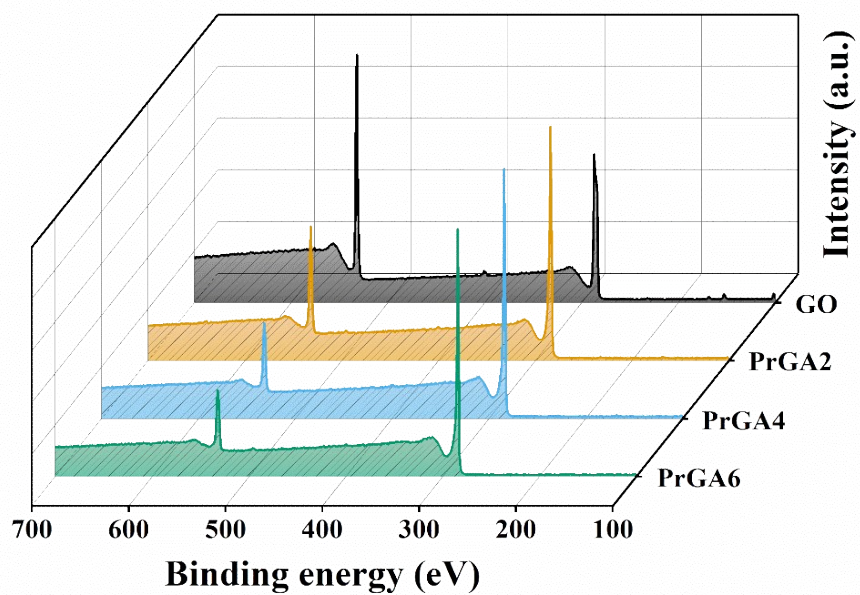


Fig. S1. XPS full spectrum of GO and PrGA-*x*.

Table S1. Atomic percentage of GO and PrGA-*x*

	GO	PrGA-2	PrGA-4	PrGA-6
C (%)	68.07	81.63	85.69	86.75
N (%)	1.55	1.08	1.00	0.95
Cl (%)	30.38	17.29	13.31	12.30

Table S2. The corresponding strain recovery ratio of PrGA-x

Sample	Stress (1 st , KPa)	Stress (10 th , KPa)	Strain recovery ratio (%)
PrGA-2	0.436	0.429	93.932
PrGA-4	0.781	0.765	94.337
PrGA-6	1.041	1.024	97.708

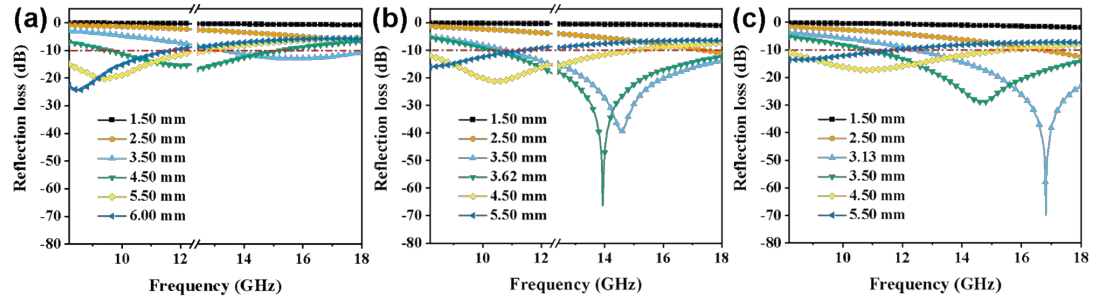


Fig. S2. The RL_{min} curves of (a) PrGA-2, (b) PrGA-4, (c) PrGA-6.

Table S1. The microwave absorption property of recently reported materials.

Materials	$RL_{\min}$ (dB)	EAB (GHz)	d (mm)	Ref.
GN/Fe ₂ O ₃ foam	-60.13	6.23	4.84	[1]
PI~NC-GAMs	-63.60	3.39	3.43	[2]
Carbon/ZnO@rGO foams	-63.20	6.20	4.10	[3]
3D Graphene/BN/SiCnws	-20.70	9.70	3.40	[4]
CNF/GO aerogel	-18.00	2.00	4.10	[5]
Partially rGO aerogel (PrGA-4)	-67.89	7.72	3.62	This work
Partially rGO aerogel (PrGA-6)	-73.07	5.59	3.13	

Notes and references

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