

Supporting Information

**High performance hierarchical porous carbon
derived from distinctive plant tissue
for supercapacitor**

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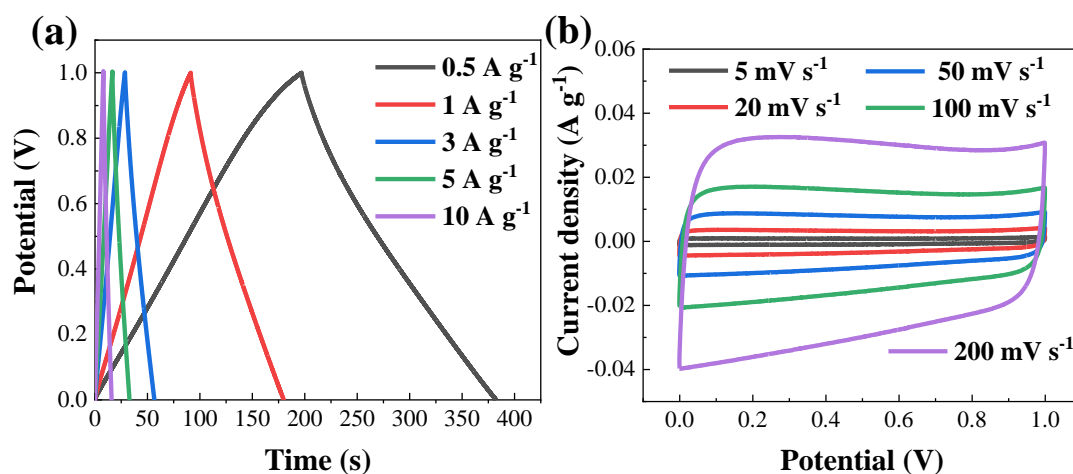


Figure S1. GCD and CV curves of OPC (a) GCD curves of OPC at different current density (b) CV curves of OPC at different scan rate

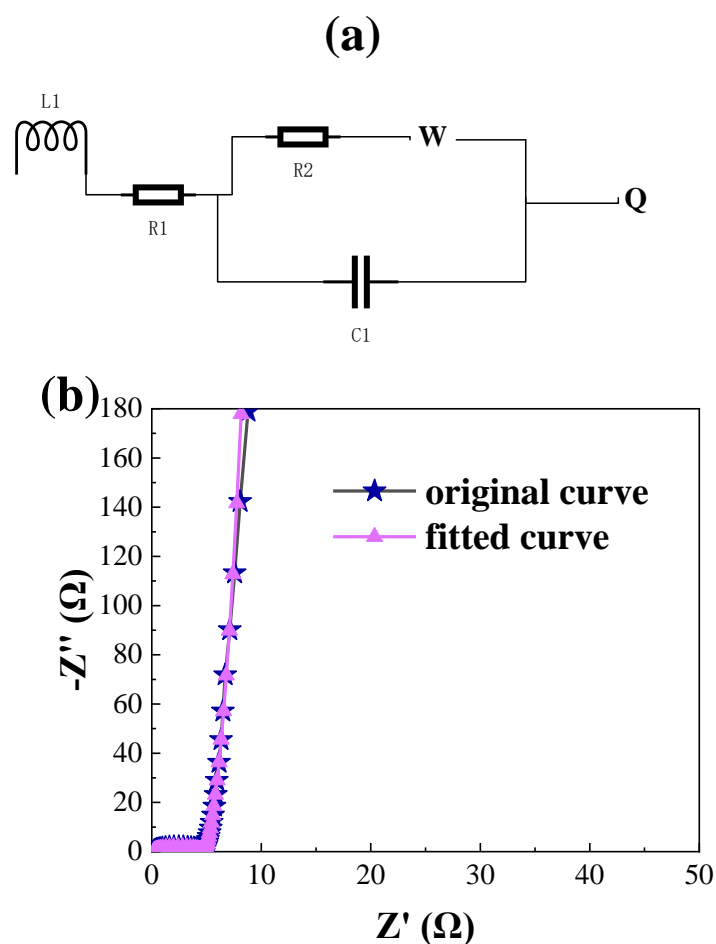


Figure S2. Simulated result of equivalent circuit (a) The equivalent circuit diagram of tested supercapacitor made by SPC (b) The comparison diagram between fitting curve and the original curve

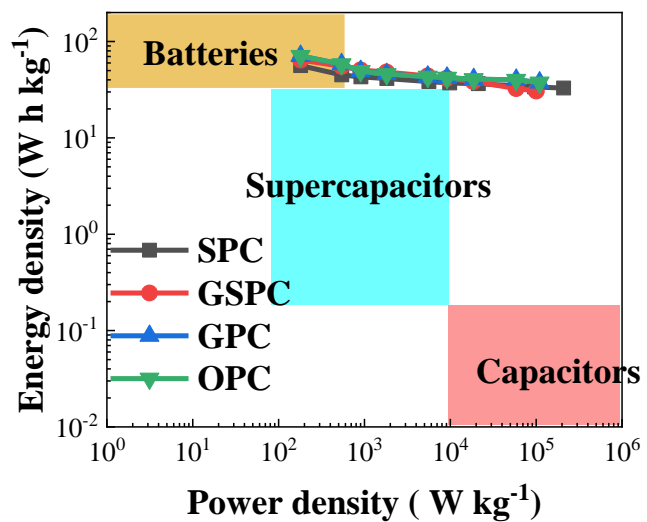


Figure S3. Power density and Energy density of 4 PC samples

Table S1 Characteristics of pores in carbonized garlic sprout before and after acid pickling

Sample	SSA	V_T	V_{micro}	D (nm)	D_{micro} (nm)
	($\text{m}^2 \text{g}^{-1}$)	($\text{cm}^3 \text{g}^{-1}$)	($\text{cm}^3 \text{g}^{-1}$)		
Before	7.70	0.084	—	9.91	—
After	56.26	0.116	0.022	5.04	0.40

Table S2 Specific capacitance under different current density

Sample	Current density (A g^{-1})				
	0.1	1	5	10	50
GSPC	513	364	334	321	279
GPC	514	385	331	305	239
OPC	568	367	335	323	294
SPC	450	330	296	289	245

Table S3 EDS analysis of garlic seedling

Element	Wt%	At%
C K	10.57	18.44
O K	41.21	53.99
Mg K	1.55	1.34
P K	3.88	2.63
S K	4.59	3.00
Cl K	3.45	2.04
K K	29.60	15.87
Ca K	5.14	2.69
Matrix	Correction	ZAF

Table S4 EDS analysis of GSPC

Element	Wt%	At%
C K	52.3	59.36
O K	47.7	40.64
Matrix	Correction	ZAF