

Supplemental information

Article

Effect of Particle Orientation and Porosity on Thermal Conductivity of Petroleum Pitch Polymer-Based Carbon Molded Body

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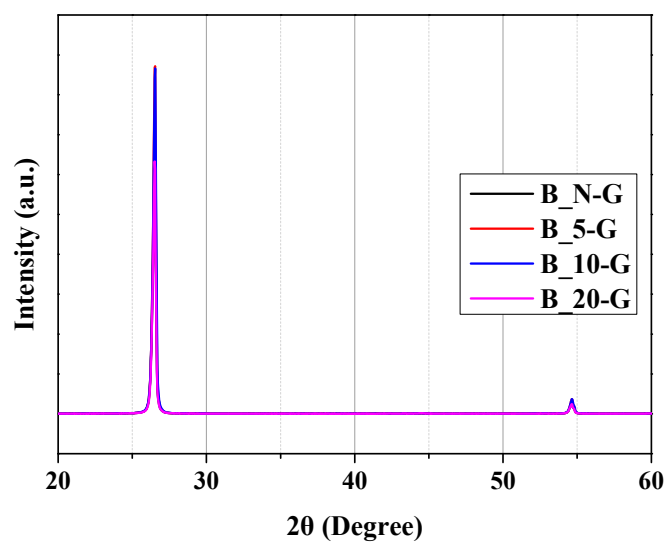
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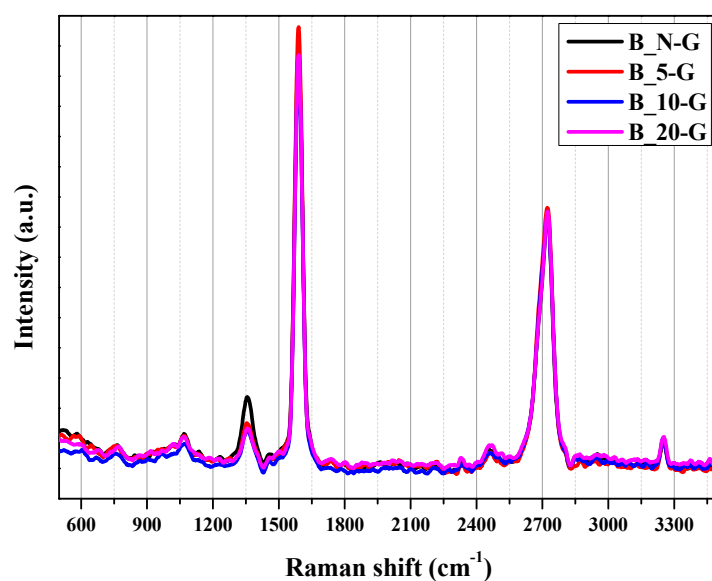
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(a) XRD



(b) Raman Spectroscopy

Figure S1. XRD and Raman Spectroscopy analysis of graphite block; (a) XRD data, (b) Raman Spectroscopy data.

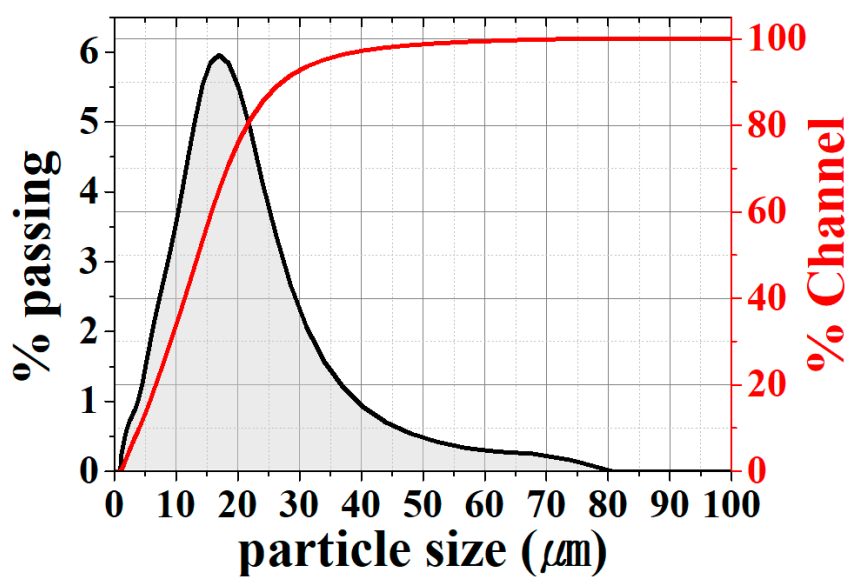


Figure S2. Particle size distribution of pulverized needle coke.

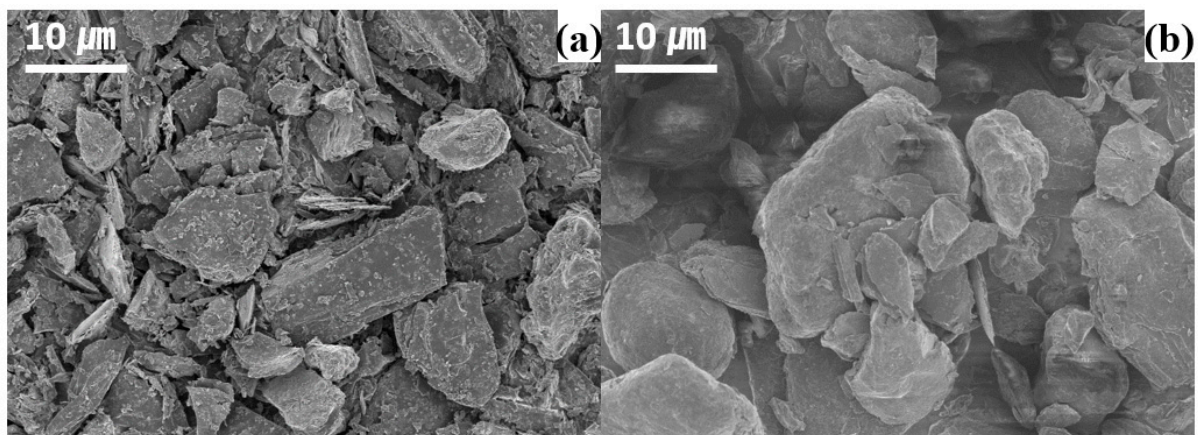


Figure S3. SEM image of pulverized needle coke and coated needle coke; (a) pulverized needle coke, (b) coated needle coke.

Table S1. Physical properties of binder pitch.

	Softening Point (°C)	Coking Value (wt%)	QI (wt%)
Binder pitch	150	47	0.5