

Effect of microwave treatment to carbon in different gas atmosphere

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In this work, we tried to graphitize amorphous carbon by using microwave irradiation in different gas atmospheres, Ar, He and H₂. Starting material is derived from petroleum pitch. 2.45GHz microwave was irradiated to the pitch derived carbon sample after carbonization process at 750°C. After microwave irradiation, d₀₀₂, L_c and L_a values are improved in the case of Ar. Microwave irradiated samples at He and H₂ atmospheres show no much changes.