

APPLICATION OF DUSTY PLASMA
FOR SYNTHESIS OF CARBON
NANOSTRUCTURES

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S u m m a r y

The synthesis and investigation of carbon substances which are formed in the arc at atmospheric pressure with feeding by currents with industry frequencies, currents with kHz frequencies, and by direct current (dc) are carried out. The influence of the current frequency on the yield of fullerenes and nanotubes, which were formed under synthesis, is explored. It is shown that a change of the local electron concentration by introducing particles of different substances has negative influence on the yield of fullerenes.