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Self-organized nanostructure formation on the graphite surface induced by helium ion irradiation

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Highlights

- Used an ingenious helium ion source to produce self-organized carbon nanostructure on graphite surface.
- FESEM results confirm the formation of multi-modal spherical and elongated agglomerated structures.
- AFM micrographs of irradiated samples also display rounded structures with the evidence of an increase in surface roughness with the increase in ion pulses.
- The Raman study reads a decrease in the L_a value after ion irradiation and suggests a loss in crystallinity of the irradiated samples.

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