### Accepted Manuscript

Title: Low-energy Electron Irradiation Induced Top-surface Nanocrystallization of Amorphous Carbon Film

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PII: S0169-4332(16)31050-9

DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2016.05.042

Reference: APSUSC 33235

To appear in: APSUSC

Received date: 23-1-2016 Revised date: 15-4-2016 Accepted date: 9-5-2016

Please cite this article as: Cheng Chen, Xue Fan, Dongfeng Diao, Low-energy Electron Irradiation Induced Top-surface Nanocrystallization of Amorphous Carbon Film, Applied Surface Science http://dx.doi.org/10.1016/j.apsusc.2016.05.042

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## ACCEPTED MANUSCRIPT

# **Low-energy Electron Irradiation Induced Top-surface Nanocrystallization of Amorphous Carbon Film**

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