### Accepted Manuscript

Title: Modeling of beam-target interaction during pulsed electron beam ablation of graphite: Case of melting

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PII: S0169-4332(16)32351-0

DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2016.10.204

Reference: APSUSC 34298

To appear in: APSUSC

Received date: 29-6-2016 Revised date: 8-10-2016 Accepted date: 31-10-2016

Please cite this article as: Muddassir Ali, Redhouane Henda, Modeling of beam-target interaction during pulsed electron beam ablation of graphite: Case of melting, Applied Surface Science http://dx.doi.org/10.1016/j.apsusc.2016.10.204

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# **ACCEPTED MANUSCRIPT**

### **HIGHLIGHTS**

- Modeling of ablation stage induced during pulsed electron beam ablation (PEBA).
- Thermal model to describe heating, melting and vaporization of a graphite target.
- Model results show good accordance with reported data in the literature.

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