

## Accepted Manuscript

Nanoparticle formation of deposited Ag<sub>n</sub>-clusters on free-standing graphene

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PII: S0039-6028(17)30156-5  
DOI: [10.1016/j.susc.2017.06.002](https://doi.org/10.1016/j.susc.2017.06.002)  
Reference: SUSC 21042



To appear in: *Surface Science*

Received date: 28 February 2017  
Revised date: 2 June 2017  
Accepted date: 2 June 2017

Please cite this article as: M. Al-Hada , S. Peters , L. Gregoratti , M. Amati , H. Sezen , P. Parisse , S. Selve , T. Niermann , D. Berger , M. Neeb , W. Eberhardt , Nanoparticle formation of deposited Ag<sub>n</sub>-clusters on free-standing graphene, *Surface Science* (2017), doi: [10.1016/j.susc.2017.06.002](https://doi.org/10.1016/j.susc.2017.06.002)

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### Highlights

- Spectroscopy and microscopy of agglomerated Ag-islands on unsupported free standing graphene
- Lognormally distributed range of island sizes grown by diffusing and coalescing clusters
- Crystalline structures and metastable fivefold-symmetric structures of Ag-nanoparticles in the size range of 2-3 nm diameter
- XPS Coulomb shift in accordance to size-dependent dynamical liquid-drop-model

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