

Accepted Manuscript

Title: Deposition and characterization of multilayer DLC:Mo thin films grown on silicon substrate by off-axis pulsed laser deposition technique

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PII: S0169-4332(15)00107-5
 DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2015.01.083>
 Reference: APSUSC 29520

To appear in: *APSUSC*

Received date: 7-11-2014
Revised date: 23-12-2014
Accepted date: 12-1-2015

Please cite this article as: M.Z. Butt, M. Khaleeq-ur-Rahman, D. Ali, A. Akmal, S. Naseem, Deposition and characterization of multilayer DLC:Mo thin films grown on silicon substrate by off-axis pulsed laser deposition technique, *Applied Surface Science* (2015), <http://dx.doi.org/10.1016/j.apsusc.2015.01.083>

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Highlights (for review)

- One DLC and three multilayer DLC:Mo thin films were deposited on Si substrate
- Surface roughness and Urbach energy increase linearly as Mo content increases
- Refractive index and optical band gap decrease exponentially with Mo addition
- Electrical resistivity decreases exponentially as Mo content increases
- Crystallite size of Mo particles increases exponentially with Mo concentration

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