

Accepted Manuscript

Title: Picosecond laser registration of interference pattern by oxidation of thin Cr films

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PII: S0169-4332(17)30217-9
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2017.01.194>
Reference: APSUSC 34989

To appear in: *APSUSC*

Received date: 18-8-2016
Revised date: 26-12-2016
Accepted date: 19-1-2017

Please cite this article as: Vadim Veiko, Michail Yarchuk, Roman Zakoldaev, Mindaugas Gedvilas, Gediminas Račiukaitis, Michail Kuzivanov, Alexander Baranov, Picosecond laser registration of interference pattern by oxidation of thin Cr films, Applied Surface Science <http://dx.doi.org/10.1016/j.apsusc.2017.01.194>

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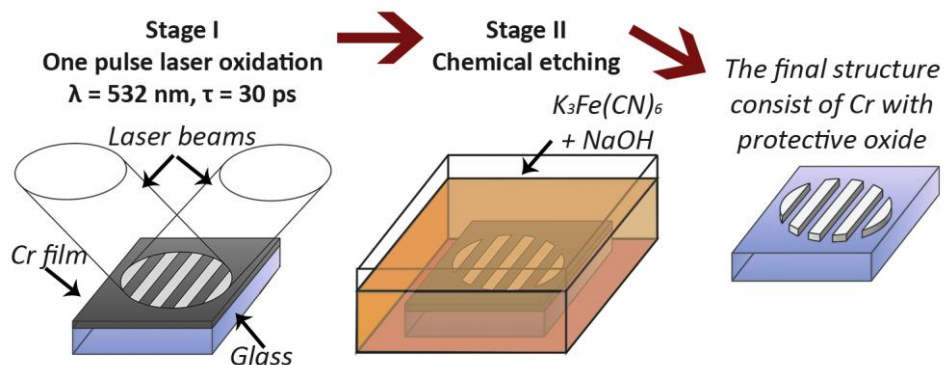
Picosecond laser registration of interference pattern by oxidation of thin Cr films

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Graphical abstract



Highlights

- Periodical patterning of thin films was achieved by combining two technologies.
- Selective chemical etching was combined with laser-induced oxidation.
- Formation of the protective oxide layer prevented of chromium film from etching.
- 1D binary grating with the chromium stripe width of 750 nm was fabricated.

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