

Title: KrP laser CVD of chromium oxide by photodissociation of Cr(CO)(6)

Author(s): Sousa, PM; **Silvestre, AJ**; Popovici, N; Parames, ML; Conde, O

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Abstract: This work reports on the synthesis of chromium oxide thin films prepared by photodissociation of Cr(CO)(6) in an oxidizing atmosphere, using a pulsed UV laser (KrF, $\lambda = 248$ nm). The experimental conditions, which should enable the synthesis of CrO₂, are discussed and results on the deposition of Cr_xO_y films on Al₂O₃ (0001) substrates are presented.

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Reprint Address: Conde, O (reprint author), Univ Lisbon, Fac Ciencias, Dept Fis, P-1749016 Lisbon, Portugal.

Addresses:

1. Univ Lisbon, Fac Ciencias, Dept Fis, P-1749016 Lisbon, Portugal
2. **Inst Super Engn Lisboa, P-1749014 Lisbon, Portugal**

E-mail Address: omconde@fc.ul.pt

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