Chemical synthesis and compositional analysis of mixed [$Mo(S_{1-x}Se_x)_2$] semiconductor thin films

Published: March 2004

Volume 39, pages 1659–1664, (2004) Cite this article

B. D. Ajalkar, S. H. Burungale, D. S. Bhange & P. N. Bhosale

Abstract

The synthesis of binary MoS_2, $MoSe_2$ and mixed [$Mo(S_{1-x}Sex)_2$] thin films onto a glass substrates using arrested precipitation technique (APT) is presented in this investigation. Growth kinetics and mechanism of film formation were studied for these films and are explained in brief. The stoichiometry of the film is confirmed by analyzing films using Extractive spectrophotometric (ESP), atomic absorption spectroscopic (AAS) and electron