#### Accepted Manuscript

Title: A comparative study on the direct deposition of  $\mu$ c-Si:H and plasma-induced recrystallization of a-Si:H: Insight into Si crystallization in a high-density plasma

Authors: H.P. Zhou, M. Xu, S. Xu, Y.Y. Feng, L.X. Xu, D.Y. Wei, S.Q. Xiao

PII:	80169-4332(17)32936-7
DOI:	https://doi.org/10.1016/j.apsusc.2017.10.013
Reference:	APSUSC 37356
To appear in:	APSUSC
Received date:	24-4-2017
Revised date:	25-9-2017
Accepted date:	2-10-2017

Please cite this article as: H.P.Zhou, M.Xu, S.Xu, Y.Y.Feng, L.X.Xu, D.Y.Wei, S.Q.Xiao, A comparative study on the direct deposition of  $\mu$ c-Si:H and plasma-induced recrystallization of a-Si:H: Insight into Si crystallization in a high-density plasma, Applied Surface Science https://doi.org/10.1016/j.apsusc.2017.10.013

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



#### ACCEPTED MANUSCRIPT

# <u>A comparative study on the direct deposition of $\mu$ c-Si:H and plasma-induced recrystallization of a-Si:H: Insight</u>

### into Si crystallization in a high-density plasma

H. P. Zhou,<sup>1,\*</sup> M. Xu,<sup>2</sup> S. Xu,<sup>3,\*</sup> Y. Y. Feng,<sup>1</sup> L. X. Xu,<sup>3</sup> D. Y. Wei,<sup>4</sup> S. Q. Xiao<sup>5</sup>

<sup>1</sup>School of Energy Science and Engineering, University of Electronic Science and Technology of China, 2006 Xiyuan Ave, West High-Tech Zone, Chengdu, Sichuan 611731, China

<sup>2</sup>*Key Laboratory of Information Materials of Sichuan Province & School of Electrical and Information Engineering, Southwest University for Nationalities, Chengdu 610041, China* 

<sup>3</sup>Plasma Sources and Application Center, NIE, and Institute of Advanced Studies, Nanyang Technological University, 637616, Singapore

<sup>4</sup> School of Mechanical and Aerospace Engineering, Nanyang Technological University, 639798, Singapore

<sup>5</sup>Key Laboratory of Advanced Process Control for Light Industry (Ministry of Education), Department of Electronic Engineering, Jiangnan University, Wuxi 214122, China

\* Electronic-mail: <u>haipzhou@uestc.edu.cn (</u>H. P. Zhou), shuyan.xu@nie.edu.sg (S. Xu)

Graphical Abstract

Download English Version:

## https://daneshyari.com/en/article/7836306

Download Persian Version:

https://daneshyari.com/article/7836306

Daneshyari.com