

The Electrochemical Society

# Solid-State Joint Posters (General)

at the 209<sup>th</sup> ECS Meeting

ECS Transactions Volume 2 No.10

May 7-12, 2006  
Denver, Colorado, USA

Printed from e-media with permission by:

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571  
[www.proceedings.com](http://www.proceedings.com)

ISBN: 978-1-56677-521-2

Some format issues inherent in the e-media version may also appear in this print version.



**ECS Transactions, Volume 2, Issue 10**  
Solid-State Joint Posters (General)

**Table of Contents**

Preface

Optical Properties of Silicon - SiO <sub>2</sub> Superlattice <i>R. Tsu and K. Daneshvar</i>	1
Usefulness of the Instantaneous Mass-charge Ratio for Elucidating the Ions Role in the Stabilization and Dissolution Processes in Prussian Blue Films <i>F. Vicente, J. Agrisuelas, C. Gabrielli, J. García-Jareño, D. Giménez-Romero, H. Perrot and J. Gregori</i>	13
Iron Diffusion Profile Studies by Surface Photo-Voltage for Silicon Iron Implanted Wafers After Rapid Thermal Anneal <i>I. Rapoport, P. Taylor, S. Kim, B. Orschel and W. Huber</i>	33
Proton Conduction in In <sup>3+</sup> -doped SnP <sub>2</sub> O <sub>7</sub> with Various P/(Sn+In) Ratios <i>M. Nagao, T. Kamiya, P. Heo, T. Hibino, M. Sano and A. Tomita</i>	43
Electronic Transport in Single Crystals of Gd-doped Ceria <i>E. Ruiz-Trejo and J. Maier</i>	51
Characterization of Surface Preparation for Epitaxial SiGe Process using X-ray Reflectivity <i>D. Agnihotri, C. Lee, H. Tai, A. Chen, M. Ma, S. Baxter, J. Gallegos and S. Kalegaonkar</i>	63
Self-seeding Crystallization of Silicon Thin Films Using Continuous-Wave Laser <i>S. Kuroki, S. Fujii, K. Kotani and T. Ito</i>	71
Photoluminescence as Complimentary Technique for Metals Contamination Monitoring After Thermal Processing <i>I. Rapoport, P. Taylor, S. Kim and B. Orschel</i>	77
Nano-Grating Channel MOSFETs for Improved Current Drivability <i>T. Ito, S. Kuroki and K. Kotani</i>	83
Author Index	91