
Nanoscale Luminescent Materials 5

Editors:

P. Mascher

D. J. Lockwood

F. Rosei

Sponsoring Divisions:



Dielectric Science & Technology



Luminescence and Display Materials



Published by

The Electrochemical Society

65 South Main Street, Building D
Pennington, NJ 08534-2839, USA

tel 609 737 1902

fax 609 737 2743

www.electrochem.org

ecstransactions™

Vol. 85, No. 3

Copyright 2018 by The Electrochemical Society.
All rights reserved.

This book has been registered with Copyright Clearance Center.
For further information, please contact the Copyright Clearance Center,
Salem, Massachusetts.

Published by:

The Electrochemical Society
65 South Main Street
Pennington, New Jersey 08534-2839, USA

Telephone 609.737.1902
Fax 609.737.2743
e-mail: ecs@electrochem.org
Web: www.electrochem.org

ISSN 1938-6737 (online)
ISSN 1938-5862 (print)
ISSN 2151-2051 (cd-rom)

ISBN 978-1-62332-483-4 (CD-ROM)
ISBN 978-1-62332-496-4 (USB)
ISBN 978-1-60768-831-0 (PDF)

Printed in the United States of America.

ECS Transactions, Volume 85, Issue 3
Nanoscale Luminescent Materials 5

Table of Contents

<i>Preface</i>	<i>iii</i>
(Invited) Excitation Mechanism of Rare Earth Ions in Nanostructured Silicon Rich Hosts <i>L. R. Tessler</i>	1
(Invited) Enhancing the Blue Emission in Ce Doped Silicon Oxynitrides Thin Films for Electroluminescence Device Applications <i>F. Ehre, C. Dufour, O. Blázquez, B. Garrido, W. Jadwisienczak, D. C. Ingram, F. Gourbilleau, C. Labbé</i>	9
Progress in Light Emission from Silicon and Germanium Nanostructures <i>D. J. Lockwood</i>	23
(Invited) Emission from Strained Germanium Nanocrystals <i>N. L. Rowell, D. J. Lockwood</i>	41
Enhancement of SSI-LED Light Emission by Embedding CdS in the Zr-Doped HfO ₂ High- <i>k</i> Film <i>S. Zhang, Y. Kuo</i>	53
Author Index	59