
Porphyrins, Phthalocyanines, and Supramolecular Assemblies

Editors:

K. Kadish

S. Mukerjee

N. Solla

R. Paolesse

T. Torres

Sponsoring Divisions:



Nanocarbons



Physical and Analytical Electrochemistry



Energy Technology



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. 66, No. 16

Copyright 2015 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 978-1-62332-281-6 (Soft Cover)
ISBN 978-1-60768-639-2 (PDF)

Printed in the United States of America.

ECS Transactions, Volume 66, Issue 16
Porphyrins, Phthalocyanines, and Supramolecular Assemblies

Table of Contents

<i>Preface</i>	<i>iii</i>
N-H Hydrogen Bonding in Porphyrins - from Conformational Design to Supramolecular Chemistry <i>M. O. Senge</i>	1
Asymmetrically β -Substituted Porphyrins and Chlorins: Synthesis, Spectroscopic, and Electrochemical Redox Properties <i>N. Chaudhri, N. Grover, M. Sankar</i>	11
Liquid Crystals of Phthalocyanine-Fullerene Dyads Exhibiting Homeotropic Alignment and Spirantes-like Supramolecular Structure Useful for Solar Cells <i>A. Watarai, S. N. Yajima, A. Ishikawa, K. Ono, M. Yasutake, K. Ohta</i>	21
Kinetic Studies of Reactions of Hydroxyporphyrins on Silicate Surface <i>T. Mizutani</i>	45
Author Index	51