
Magnetic Materials, Processes, and Devices 13

Editors:

C. Bonhôte

HGST, A Western Digital Company
San Jose, California, USA

S. Brankovic

University of Houston
Houston, Texas, USA

H. H. Gatzen

University of Hannover
Hanover, Germany

P. Hesketh

Georgia Institute of Technology
Atlanta, Georgia, USA

Y. Kitamoto

Tokyo Institute of Technology
Meguro, Japan

T. Osaka

Waseda University
Shinjuku, Japan

G. Zangari

University of Virginia
Charlottesville, Virginia, USA

Sponsoring Division:



Electrodeposition



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. 64, No. 31

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 978-1-62332-254-0 (Soft Cover)
ISBN 978-1-60768-611-8 (PDF)

Printed in the United States of America.

Table of Contents

<i>Preface</i>	<i>iii</i>
Fabrication of FePt and CoPt Magnetic Nanodot Arrays by Electrodeposition Process <i>T. Homma, S. Wodarz, D. Nishiie, T. Otani, S. Ge, G. Zangari</i>	1
Investigation of Electrodeposited NiFeMo for Application as Flux Concentrator in Magnetic Field Sensors <i>A. Wienecke, K. Müller-Wehrich, L. Rissing</i>	11
Research Activities in the Field of Electromagnetic Energy Harvesting Micro Systems <i>M. C. Wurz</i>	21
Influence of Deposition Parameters on Mechanical Stress and Magnetic Properties in Thick, Electroplated Co-Fe Flux Guides <i>R. M. Kruppe, L. Rissing</i>	33
Investigation of the Electroless Deposition Process of Magnetic Nanostructures <i>D. Richardson, F. M. F. Rhen</i>	39
Magnetic Beads - Basics and Applications <i>C. Ruffert</i>	49
Biocompatibility and Biofunctionality of Magnetic Nanoparticles <i>S. Ota, T. Yamada, Y. Takemura</i>	67
A Comparative Study of Saturation Induction with Current Density of Electrodeposited Fe-Ni-W Alloys <i>B. M. Mundotiya, M. C. Wurz, L. Rissing</i>	75
Author Index	85