

Battery Congress 2016

Papers

Proceedings Volume 82

Troy, Michigan, USA
16-18 May 2016

Editors:

M. Nasim Uddin

Rafiq Uddin

ISBN: 978-1-5108-2554-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



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

Copyright© (2016) by Global Automotive Management Council (GAMC)
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact Global Automotive Management Council (GAMC)
at the address below.

Global Automotive Management Council (GAMC)
5340 Plymouth Road, Suite 205
Ann Arbor, Michigan, USA 48105

Phone: (734) 997-9249

Fax: (734) 786-2242

support@gamcinc.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

EXPLORING INTERFACES AND INTERPHASES FOR THE POST LI-ION BATTERY WORLD	1
<i>T. Arthur</i>	
DELAYED THERMAL RESPONSE IN BATTERIES	9
<i>H. Catherino</i>	
MULTIFUNCTIONAL ENERGY STORAGE COMPOSITES – ELECTROCHEMICAL AND MECHANICAL CYCLING CHARACTERIZATION	20
<i>P. Ladpli, R. Nardari, Y. Wang, F. Kopsaftopoulos, F.-K. Chang, H. Liu, M. Slater, K. Kepler</i>	
DEVELOPMENT OF NICKEL ZINC TECHNOLOGY FOR MILITARY AND CIVILIAN ENERGY STORAGE APPLICATIONS	34
<i>R. Evans, S. Vechy, A. Loyns, S. Lichte, C. Oettel, A. Pensado, B. Leshtanski</i>	
HIGH PERFORMANCE AND LOW COST GRAPHENE COMPOSITE FIN FOR THERMAL MANAGEMENT OF ENERGY STORAGE SYSTEMS	46
<i>X. Geng, J. Pinon, R. Privette</i>	
SYNERGETIC EFFECTS OF INORGANIC COMPONENTS IN SOLID ELECTROLYTE INTERPHASE ON HIGH CYCLE EFFICIENCY OF LITHIUM ION BATTERIES	55
<i>Q. Zhang, P. Lu, Z. Liu, M. Verbrugge, X. Xiao, J. Pan, Y.-T. Cheng, B. Sheldon, Y. Qi</i>	
DEVELOPMENT OF LIGHTWEIGHT HANGER RODS FOR VEHICLE EXHAUST APPLICATIONS	63
<i>Z. Wei, R. Barr, S. Das, D. Mellon, B. Fingland, T. Quan</i>	
Author Index	