

# Contents

<b>Utilization of Peridynamic Theory for Modeling at the Nano-Scale . . .</b>	<b>1</b>
E. Oterkus, C. Diyaroglu, N. Zhu, S. Oterkus and E. Madenci	
<b>DNA Metallization Processes and Nanoelectronics . . . . .</b>	<b>17</b>
Arianna Filoramo	
<b>Evaluation of Leakage Current in 1-D Silicon Dangling-Bond Wire Due to Dopants . . . . .</b>	<b>33</b>
R. Robles, M. Kepenekian and N. Lorente	
<b>Direct Integration of Carbon Nanotubes in Si Microsystems . . . . .</b>	<b>41</b>
Knut E. Aasmundtveit	
<b>Nanopackaging Requests for Atomic Scale Circuits and Molecule-Machines . . . . .</b>	<b>59</b>
Christian Joachim	
<b>Single-Crystal Au Triangles as Reconfigurable Contacts for Atomically Smooth Surfaces: Ultra-High Vacuum Transfer-Printing . . . . .</b>	<b>83</b>
Cedric Troadec, René Heimbuch, Deng Jie, Olga Neucheva, Ramesh Thamankar, Yap Tiong Leh and Christian Joachim	
<b>Site-Selective Self-Assembly of Nano-Objects on a Planar Substrate Based on Surface Chemical Functionalization . . . . .</b>	<b>93</b>
Francisco Palazon, Pedro Rojo Romeo, Ali Belarouci, Céline Chevalier, Hassan Chamas, Éliane Souteyrand, Abdelkader Souifi, Yann Chevolot and Jean-Pierre Cloarec	

<b>Silicon Technologies for Nanoscale Device Packaging . . . . .</b>	<b>113</b>
Aur�lie Thuaire, Ga�lle Le Gac, Guillaume Audoit, Fran�ois Aussenac, Caroline Rauer, Emmanuel Rolland, Jean-Michel Hartmann, Anne-Marie Charvet, Hubert Moriceau, Pierrette Rivallin, Patrick Reynaud, Severine Cheramy, Nicolas Sillon and Xavier Baillin	
<b>Designing Carbon Nanotube Interconnects for Radio Frequency Applications . . . . .</b>	<b>137</b>
Christophe Brun, Chin Chong Yap, Dominique Baillargeat and Beng Kang Tay	
<b>Packaging of Buckyballs/Buckytubes in Transparent Photo-Active Inorganic Polymers: New Hope in the Area of Electronics and Optoelectronics . . . . .</b>	<b>155</b>
Radhaballabh Debnath	
<b>Novel Nanostructured Passives for RF and Power Applications: Nanopackaging with Passive Components . . . . .</b>	<b>175</b>
P. Markondeya Raj, Parthasarathi Chakraborti, Dibyajat Mishra, Himani Sharma, Saumya Gandhi, Srikrishna Sitaraman and Rao Tummala	

Nanopackaging: From Nanomaterials to the Atomic  
Scale

Proceedings of the 1st International Workshop on  
Nanopackaging, Grenoble 27-28 June 2013

Baillin, X.; Joachim, C.; Poupon, G. (Eds.)

2015, VIII, 189 p. 124 illus., 47 illus. in color., Hardcover

ISBN: 978-3-319-21193-0