

Content

i	Preface
1	Light to Heat Conversion: Bridging the Sun and Energy Crisis /Xu Xiale Luan Tian Song Chengyi Deng Tao
14	Superconducting Materials: “Skating Rink” Where Electrons Can Move Unimpeded /Mu Gang Xie Xiaoming
31	Breathing Metals: Hydrogen Storage Alloys /Wu Ying Chen Jinting
44	Light Reflecting Film: A Good Assistant for <u>Energy</u> Saving in Display and Lighting /Wang Dan Zhou Yubo
56	Desalination Membrane: Quenching the Earth’s Thirst /Liu Shuang
70	Reversible “Photosynthesis” : Magic Photocatalysis /Liang Fenfen
79	From Harry Potter’s Resurrection Stone to Regenerative Biomaterials /Lu Jiaju Wang Xiumei

- 89 **Exploring the Wonders of Micro/Nanorobots**/Lin Xinyi Yu Ying
Mei Yongfeng
- 105 **Quantum Dots: A Colorful Nano-World**/Wang Hongzhi Zhang Jiatao
- 113 **Luminescent Solar Concentrator-Based Smart Windows for Sustainable
Energy Application**/Yuwaraj K. Kshetri Tae Ho Kim Soo Wohn
Lee