

**Ionic Liquids: From Knowledge to Application.** Edited by Natalia V. Plechkova (The Queen's University of Belfast), Robin D. Rogers (The University of Alabama), and Kenneth R. Seddon (The Queen's University of Belfast). American Chemical Society: Washington, DC (distributed by Oxford University Press). 2010. xiv + 458 pp. \$175. ISBN 978-0-8412-6997-2.

This book emerged from a symposium of the same title held at the 236th ACS National Meeting in Philadelphia, PA in August, 2008 and “provides an interesting snapshot at some of the main lines of current and new research within the field”, to quote from the Preface. The 27 chapters are organized under the following headings: Properties of Ionic Liquids; Novel Applications of Ionic Liquids; Nanoparticles and Colloids in Ionic Liquids; and Separations and Interfacial Properties. An author index and a subject index complete the book.

JA107137E

10.1021/ja107137e

---

Unsigned book reviews are by the Book Review Editor.

**Annual Review of Physical Chemistry, Vol. 61.** Edited by Stephen R. Leone (University of California, Berkeley), Paul S. Cremer (Texas A&M University), Jay T. Groves (University of California, Berkeley), Mark A. Johnson (Yale University), and Geraldine Richmond (University of Oregon). Annual Reviews: Palo Alto, CA. 2010. xiv + 500 pp. \$84. ISBN 978-0-8243-1061-5.

This volume of *Annual Review of Physical Chemistry*, like previous volumes, features 22 articles on a broad range of topics within the field of physical chemistry written by experts in their respective areas. The prefatory chapter “On Walking in the Footsteps of Giants” is by Marilyn Jacox, who tells her story of her “lifelong fascination with light” and the people and events that influenced her career. The remaining chapters cover a number of different subjects from single-molecule-based super-resolution imaging, to bioenabled synthesis of metamaterials, to the investigation of transition-path theory and path-finding algorithms for analyzing rare events. The book concludes with cumulative indices of contributing authors and chapter titles for Vols. 57–61. An online version is also available.

JA107134U

10.1021/ja107134u