



Molecular Crystals and Liquid Crystals

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/gmcl20>

A Review of: "Frontiers in Crystal Engineering, edited by Edward R. T. Tiekink and Jagadees Vittal"

Kraig A. Wheeler^a

^a Department of Chemistry, 600 Lincoln Avenue
Eastern Illinois University Charleston, Illinois,
61920-3099

Version of record first published: 31 Jan 2007

To cite this article: Kraig A. Wheeler (2006): A Review of: "Frontiers in Crystal Engineering, edited by Edward R. T. Tiekink and Jagadees Vittal", *Molecular Crystals and Liquid Crystals*, 461:1, 145-145

To link to this article: <http://dx.doi.org/10.1080/15421400600983564>

PLEASE SCROLL DOWN FOR ARTICLE

Full terms and conditions of use: <http://www.tandfonline.com/page/terms-and-conditions>

This article may be used for research, teaching, and private study purposes. Any substantial or systematic reproduction, redistribution, reselling, loan, sub-licensing, systematic supply, or distribution in any form to anyone is expressly forbidden.

The publisher does not give any warranty express or implied or make any representation that the contents will be complete or accurate or up to date. The accuracy of any instructions, formulae, and drug doses should be

independently verified with primary sources. The publisher shall not be liable for any loss, actions, claims, proceedings, demand, or costs or damages whatsoever or howsoever caused arising directly or indirectly in connection with or arising out of the use of this material.

Book Review

Frontiers in Crystal Engineering, edited by Edward R. T. Tiekink and Jagadese Vittal, John Wiley & Sons, 2006; 346 pp.; \$200.00.

Consistent and systematic developments in crystal engineering over the past decade have advanced this discipline from an emerging area to a significant field of study recognized and embraced by mainstream science. As one might expect, this progress did not originate from the collective effort of researchers traveling similar paths moving toward a common goal but rather from investigations probing a vast assortment of topics using a variety of investigative avenues. At times these studies seem to lack a unifying theme, but as researchers cultivate fresh new areas and unfold significant discoveries, the links that connect this body of work emerge with striking clarity.

Frontiers in Crystal Engineering is a timely compendium that demonstrates this rich diversity through tangible examples of recent advances in the field. The editors, Tiekink and Vittal, have organized this work into roughly three sections that explore material applications [supramolecular green chemistry (1), pharmaceutical cocrystals (2), and template-controlled solid-state synthesis (3)], the control of molecular assemblies [interplay of noncovalent bonds (4), clathrate systems (5), steric controlled crystal packing (6), and molecular hosts (7)], and supramolecular tendencies of coordination polymers [interpenetrating networks (8), paddlewheel building blocks (9), directing and sustaining crystalline architectures (11), and hydrogen bonding in coordination polymers (11 and 12)]. The collection of chapters is not meant to be comprehensive but offers a conveniently packaged snapshot of significant areas in the field. Each contribution contains discussions that range from fundamental concepts to deeper insights that on many occasions lead to consideration of potential fertile areas for future study. Both entrenched and budding members of the discipline will benefit from reading this text.

Kraig A. Wheeler
Department of Chemistry
600 Lincoln Avenue
Eastern Illinois University
Charleston, Illinois, 61920-3099