## Storing Energy, with Special Reference to Renewable Energy Sources

**Trevor Letcher**
**Elsevier, 2016, ISBN: 9780128034408**

Storing Energy discusses the needs of the world's future energy and climate change policies, covering the various types of renewable energy storage in one comprehensive volume that allows readers to conveniently compare the different technologies and find the process that best suits their particular needs.

Each chapter is written by an expert working in the field and includes copious references for those wishing to study the subject further. Various systems are discussed, including mechanical/kinetic, thermal, electrochemical and other chemical, and other emerging technologies. Incorporating the advancements in storing energy as described in this book will help the people of the world overcome the problems related to future energy and climate change.

**See iupac.org/project/2015-006-1-100**

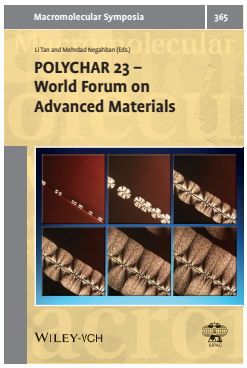
## Chemistry Beyond Chlorine

**Pietro Tundo, Liang-Nian He, Ekaterina Lokteva, Claudio Mota (eds)**
**Springer 2016, ISBN: 978-3-319-30071-9 (Print)**
**978-3-319-30073-3 (Online)**

Since the industrial revolution, chlorine has been an iconic molecule, even though its production by the electrolysis of sodium chloride is extremely energy intensive. The rationale behind this book is to present useful and industrially relevant examples for alternatives to chlorine in synthesis. This volume presents numerous contributions from an international spectrum of authors, who demonstrate how to facilitate the development of industrially relevant and implementable breakthrough technologies. This volume will interest individuals working in organic synthesis in industry and academia who are working in Green Chemistry and Sustainable Technologies.

**See iupac.org/project/2013-057-3-300**

## POLYCHAR 23—World Forum on Advanced Materials




***Macromolecular Symposia***
**Vol 365, July 2016**
**Edited by Li Tan and Mehrdad Negahban**

The articles in this volume originated from presentations at the 23rd World Forum on Advanced Materials (POLYCHAR 23), held 11-15 May 2015, at the University of Nebraska-Lincoln, Lincoln, NE, USA. A number of presentations were developed into full length articles for this volume thanks to the diligent efforts of their authors.

The World Forum on Advanced Materials is a long-standing conference that combines a day-long workshop of short courses with a four-day meeting focused on polymer characterization, properties, synthesis, processing, and manufacturing. Each POLYCHAR combines an international forum promoting collaboration between students and scientists with a dedication to providing opportunities for individual growth and for recognition of excellence. See conference report prepared by Michael Hess and published in *CI* Sep 2015, pp. 42-44. See this issue p. 39 for a report on POLYCHAR 24.

**www.ms-journal.de**

## Macromolecular Complexes Part I and II

***Macromolecular Symposia*** **Vol 363 and 364, May and June 2016**
**Edited by Andrzej W. Trochimczuk**

Parts I and II contain selected contributions to the 16th International Symposium on Macromolecular Complexes (MMC-16, 2015) endorsed by IUPAC. The symposium was held 10-14 August 2015 under the chairmanship of Prof. Andrzej W. Trochimczuk and was organized by faculty and students of the Faculty of Chemistry at Wrocław University of Technology, Wrocław, Poland. The opening lecture, "Macromolecular Complexes with Polymers and Hybrid Materials Prepared by ATRP" was delivered by Prof. Krzysztof Matyjaszewski, Department of Chemistry, Carnegie Mellon University, PA, USA. The delivered plenary and invited lectures covered the following areas:

- Macromolecular Complexes
- Energy Harvesting
- Photoconductivity
- Ionic conductivity
- Bio-related Macromolecular Complexes
- Bioinorganic, Bioorganic and Medicinal Chemistry
- Macromolecular Metal Complexes/Catalysis
- Organic-Inorganic Hybrids
- Supramolecular Complexes and Self-Assembly
- Polyelectrolytes

These proceedings are intended for scientists working in the very broad and rapidly expanding field of macromolecular complexes. MMC-17 will be held at Waseda University, Tokyo, Japan, 28-31 August 2017, under the chairmanship of Prof. Hiroyuki Nishide.

**www.ms-journal.de**

## Polymer-Solvent Complexes and Intercalates POLYSOLVAT-10

**_Macromolecular Symposia_ Vol 359, Jan 2016**
**Edited by Christophe Daniel**

The tenth International IUPAC Conference on Polymer-Solvent Complexes and Intercalates (POLYSOLVAT-10) took place in Salerno (Italy) from 22-25 September 2014. It was organized by the Dipartimento di Chimica e Biologia of the University of Salerno and sponsored by the Associazione Italiana Macromolecole (AIM) and the Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM).

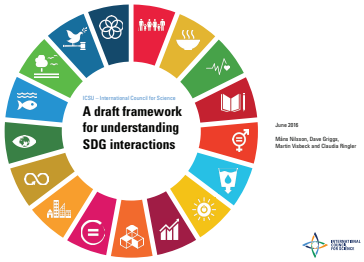
More than 60 scientists from 15 countries attended this conference, which is organized every two years and focuses on the formation mechanisms, morphology, molecular structure, and the properties of compounds from synthetic polymers, biopolymers, proteins, supramolecular polymers, and systems formed at surfaces/interfaces.

Since the first conference, held in 1996, the proceedings of POLYSOLVAT symposia have all been published in *Macromolecular Symposia*. As with the former issues, the selected contributions of this volume provide an overview of the various topics discussed during the POLYSOLVAT-10 conference. POLYSOLVAT-11 was held in January 2016 in India (www.iacs.res.in/conferences/polysolvat11/).

**www.ms-journal.de**

## A Draft Framework for Understanding SDG Interactions

**Måns Nilsson, Dave Griggs, Martin Visbeck, and Claudia Ringler, ICSU, June 2016**




2016 is the year when the implementation phase of the Sustainable Development Goals (SDGs) really kicks into action. The principle obstacle to implementation at the national level is the complex web of interactions between different goals. To that end, the International Council for Science has just published a new working paper that presents a new tool to analyse and understand interactions between different SDGs.

Authored by Måns Nilsson, Dave Griggs, Martin Visbeck, and Claudia Ringler, "A draft framework for understanding SDG interactions" was developed as part of a project led by the Council to explore an integrated and strategic approach to implementation of the SDGs. It goes hand in hand with a commentary in *Nature* called, "Map the interactions between the Sustainable Development Goals." (*Nature* 534, 320–322 (16 June 2016); doi:10.1038/534320a)

"This paper presents a conceptual tool to start unpacking interlinkages across the Sustainable Development Goals and invite scientists, policymakers and practitioners to jointly explore how the SDG puzzle fits together and how it can be implemented," say the authors of the paper.

The framework is based on a seven-point scale of SDG interactions, ranging from "Indivisible" to "Cancelling" which is intended to identify and test development pathways that minimize negative interactions and enhance positive ones. The working paper is the result of a two-day workshop organized by the Council in January 2016 which brought together a range of stakeholders to discuss and refine the conceptual framework. The framework is a starting point for building an evidence base to characterize the goal interactions in specific local, national, or regional contexts. The Council is currently convening research teams to develop thematic case studies, starting with the SDGs for health, energy, and food and agriculture.

**www.icsu.org/news-centre/news/top-news/new-icsu-paper-published-draft-framework-for-understanding-sdg-interactions**