

Collect. Czech. Chem. Commun.
2001, *66*, 1149–1163

**Sulfur Adsorption and Reaction with
 a TiO₂(110) Surface: O↔S Exchange
 and Sulfide Formation**

Jan Hrbek, Jose A. Rodriguez,
 Joseph Dvorak and Tomas Jirsak



Collect. Czech. Chem. Commun.
2001, *66*, 1164–1190

**Analytic Energy Derivatives for the Direct
 Iterative Approach to the Generalized
 Bloch Equation**

Holger Meissner and Josef Paldus

Bloch equation

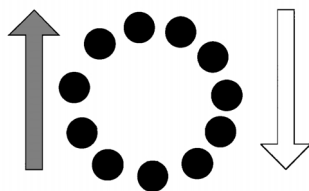
$$\langle \Phi_q | (1 - \hat{U}) \hat{H} \hat{U} | \Psi^{(0)} \rangle = 0$$

iterative approach

Collect. Czech. Chem. Commun.
2001, *66*, 1191–1207

**Nano-Organized Structures in a Field:
 Equilibrium and Steady-State Gradient
 Focusing in Multicomponent
 Colloidal Systems**

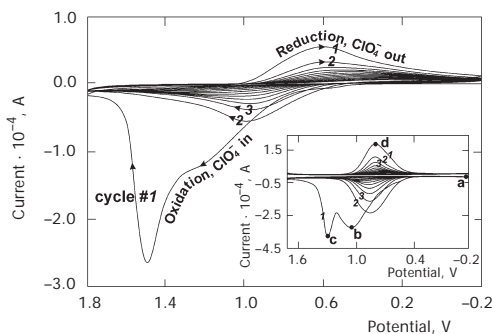
Josef Janča



Collect. Czech. Chem. Commun.
2001, *66*, 1208–1218

**Tuning of Electronic Properties
 in Conducting Polymers**

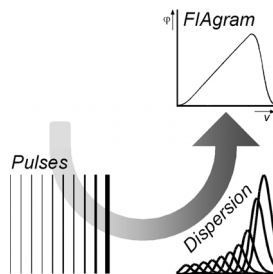
Guofeng Li, Mira Josowicz
 and Jiří Janata



Collect. Czech. Chem. Commun.
2001, 66, 1219–1237

**Pulse Modulation – A Novel Approach
 to Gradient-Based Flow Injection
 Techniques**

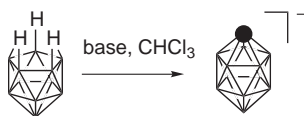
Armando Herbelin and Jaromir Ruzicka



Collect. Czech. Chem. Commun.
2001, 66, 1238–1249

**Preparation of [*closo*-CB₁₁H₁₂][−] by
 Dichlorocarbene Insertion Into
 [*nido*-B₁₁H₁₄][−]**

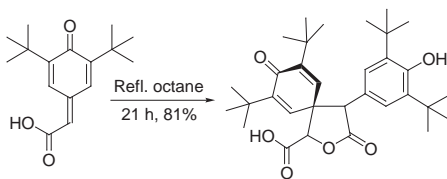
Andreas Franken, Benjamin T. King,
 Jens Rudolph, Photon Rao,
 Bruce C. Noll and Josef Michl



Collect. Czech. Chem. Commun.
2001, 66, 1250–1256

**New Cyclodimerization Reaction of
 (3,5-Di-*tert*-butyl-4-oxocyclohexa-2,5-
 dienylidene)acetic Acid**

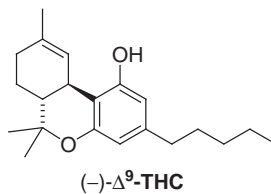
Peter Nesvadba, Piotr Rzadek
 and Günther Rist



Collect. Czech. Chem. Commun.
2001, 66, 1257–1268

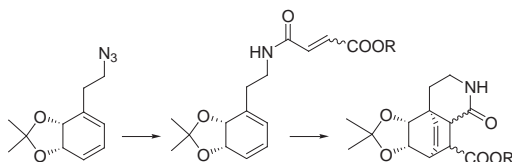
**Tetrahydrocannabinol Revisited:
 Synthetic Approaches Utilizing
 Molybdenum Catalysts**

Andrei V. Malkov and Pavel Kočovský



Collect. Czech. Chem. Commun.
2001, 66, 1269–1286

**Intramolecular Diels–Alder
 Cycloadditions of *cis*-Cyclohexa-
 dienediols Derived Enzymatically
 from (2-Azidoethyl)benzene.
 Construction of Highly
 Functionalized Bridged
 Isoquinoline Synthons**

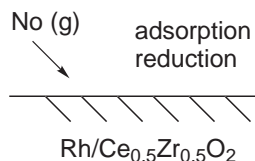


Josef Zezula, Tomáš Hudlický and Ion Ghiviriga

Collect. Czech. Chem. Commun.
2001, 66, 1287–1298

**Infrared Study of Nitric Oxide (NO)
 Adsorption and Conversion
 on CeO₂–ZrO₂ Mixed Oxide**

Paolo Fornasiero and Jan Kašpar



Collect. Czech. Chem. Commun.
2001, 66, 1299–1314

**Fully Automated Parallel
 Oligonucleotide Synthesizer**

Michal Lebl, Christine Burger, Brett Ellman,
 David Heiner, Georges Ibrahim, Aaron Jones,
 Mark Nibbe, Jaylynn Thompson, Petr Mudra,
 Vít Pokorný, Pavel Poncar and Karel Ženíšek



O L I G A T O R™

Automated parallel
 synthesis of 768
 oligonucleotides