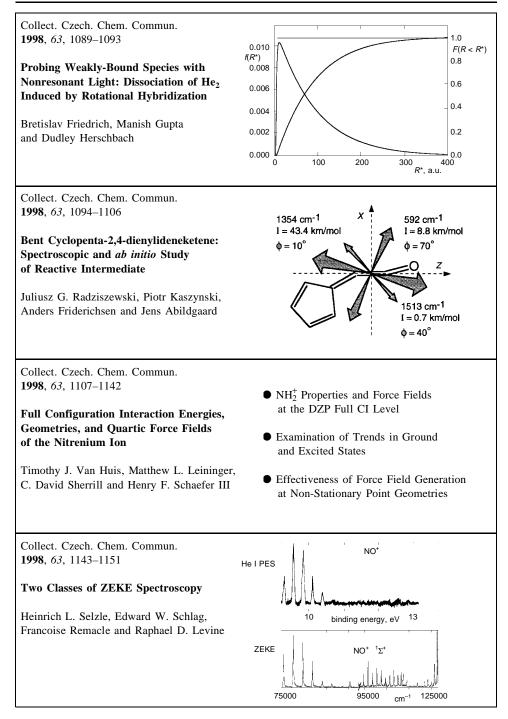
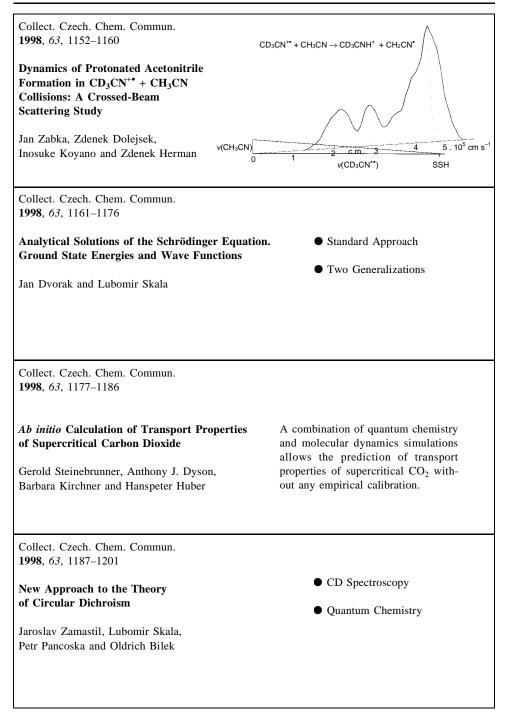
Graphic Abstracts No.8





Collect. C	zech.	Chem.	Commun.
1998 , <i>63</i> ,	1202-	-1212	

Reliability of DFT Methods for Description of Cu Sites and Their Interaction with NO in Zeolites

Dana Nachtigallova, Marketa Davidova and Petr Nachtigall

 $Cu^{n+}H_2O \rightarrow Cu^{n+} + H_2O$

 $Cu^{n+}NO \rightarrow Cu^{n+} + NO$

Collect. Czech. Chem. Commun. **1998**, *63*, 1213–1222

Single-Root Multireference Brillouin–Wigner Coupled-Cluster Theory. Rotational Barrier of the Ethylene Molecule

Jozef Masik, Pavel Mach, Jan Urban, Martin Polasek, Peter Babinec and Ivan Hubac

Collect. Czech. Chem. Commun. **1998**, *63*, 1223–1244

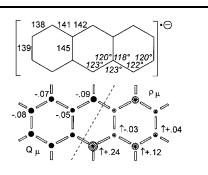
Binding Energies of Organic Charge-Transfer Complexes Calculated by First-Principles Methods

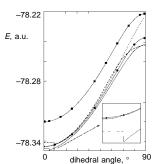
Cordula Rauwolf, Achim Mehlhorn and Jurgen Fabian

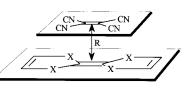
Collect. Czech. Chem. Commun. **1998**, *63*, 1245–1263

Bare Molecular Anions of Unsaturated Hydrocarbons: Density Functional Charge and Spin Distributions Based on Their Single Crystal Structures

Zdenek Havlas and Hans Bock







Collect. Czech. Chem. Commun. **1998**, *63*, 1264–1284

Evaluation of Molecular Integrals in a Mixed Gaussian and Plane-Wave Basis by Means of the Faddeeva Function and Its Derivatives

Petr Carsky and Tomas Reschel

(gk|gk) and (gg|gk) integrals

g's are Cartesian Gaussians

and $k = \exp(i\mathbf{k} \cdot \mathbf{r})$

Collect. Czech. Chem. Commun. **1998**, *63*, 1285–1294

Ultrafast Nonadiabatic Dynamics. Theoretical Study of Femtosecond Electron Transfer Processes

Joshua Jortner and Mordechai Bixon

• Upper Bounds for Nonadiabatic Rates

Quasicontinuum

• Correlations in the Franck–Condon