LIST OF PIOTR PIECUCH'S PUBLICATIONS†

1. Monographs, Book Chapters, and Feature Articles††


† Papers written at Michigan State University before submitting the tenure promotion package in the Fall of 2001 are marked by *. Papers written at Michigan State University after submitting the tenure promotion package in the Fall of 2001 are marked by **. Clickable hyperlinks to listed publications are marked by blue color.

†† All other invited papers are listed with the remaining original articles.


2. Articles


125.** C.D. Sherrill and P. Piecuch, “The \(X \, 1\Sigma_g^+, \; B \, 1\Delta_g, \; \text{and} \; B' \, 1\Sigma_g^+\) States of \(C_2\): A Comparison of Renormalized Coupled-Cluster and Multireference Methods with Full Configuration Interaction Benchmarks,” *J. Chem. Phys.* **122**, 124104-1–124104-17 (2005).


honor of Professor Henry F. Schaefer, III; edited by T.D. Crawford and C.D. Sher- 

till; invited contribution].

Equation-of-Motion Coupled-Cluster Methods: Review of Key Concepts, Extension 
to Excited States of Open-Shell Systems, and Comparison with Electron-Attached 
and Ionized Approaches,” Int. J. Quantum Chem. 109, 3268-3304 (2009) [special 
issue dedicated to the proceedings of the Sixth Congress of the International Society 
for Theoretical Chemical Physics (ISTCP-VI), edited by Y.A. Wang, E. Brändas, 
and J. Maruani].

171.** R. Roth, J.R. Gour, and P. Piecuch, “Center-of-Mass Problem in Truncated Config- 
(2009).

172.** W. Li, P. Piecuch, J.R. Gour, and S. Li, “Local Correlation Calculations Using 
Standard and Renormalized Coupled-Cluster Approaches,” J. Chem. Phys. 131, 

173.** W. Li and P. Piecuch, “Multilevel Extension of the Cluster-in-Molecule Local Cor- 
relation Methodology: Merging Coupled-Cluster and Møller-Plesset Perturbation 

174.** W. Li and P. Piecuch, “Improved Design of Orbital Domains within the Cluster-in-
Molecule Local Correlation Framework: Single-Environment Cluster-in-Molecule 
Ansatz and its Application to Local Coupled-Cluster Approach with Singles and 
Doubles,” J. Phys. Chem. A 114, 8644-8657 (2010) [special issue in honor of Pro-
fessor Klaus Ruedenberg, invited contribution, in response to an invitation issued 
to P. Piecuch].

175.** P. Arora, W. Li, P. Piecuch, J.W. Evans, M. Albao, and M.S. Gordon, “Diffusion 
of Atomic Oxygen on the Si(100) Surface,” J. Phys. Chem. C 114, 12649-12658 
(2010).

176.** J.R. Gour, P. Piecuch, and M. Wloch, “Comparison of the Completely Renormal- 
ized Equation-of-Motion Coupled-Cluster and Quantum Monte Carlo Results for 
[special issue entitled “Proceedings of Molecular Quantum Mechanics 2010: An 
International Conference in Honour of Professor Henry F. Schaefer III”; invited 
contribution, in response to an invitation issued to P. Piecuch].

(2010) [special issue entitled “Electrons, Molecules, Solids, and Biosystems: Fifty 
Years of the Quantum Theory Project”; invited contribution].

vs Supermolecular Strategies in Evaluating the Hydrogen-Bonding-Induced Shifts 

179.** J.A. Hansen, P. Piecuch, J.J. Lutz, and J.R. Gour, “Geometries and Adiabatic Ex- 
citation Energies of the Low-Lying Valence States of CNC, C2N, N3, and NCO Stud- 
ied with the Electron-Attached and Ionized Equation-of-Motion Coupled-Cluster 
Methodologies,” Phys. Scr. 84, 028110 (2011) (17pp) [special CAMOP-Molec2010 
issue of Physica Scripta dedicated to the 18th European Conference on Dynamics 
of Molecular Systems (MOLEC-XVIII); invited contribution].


189.** P. Piecuch, J.A. Hansen, D. Staedter, S. Faure, and V. Blanchet, “Communication: Existence of the Doubly Excited State that Mediates the Photoionization of


