

LIST OF SELECTED PUBLICATIONS :

1. E. Eliav(Ilyabaev), U. Kaldor, Y. Ishikawa
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Energies of the gold atom and its cation
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2. E. Eliav, U. Kaldor, Y. Ishikawa
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correlation
Phys. Rev. Lett., 74, pp. 1079-82 (1995)
3. E. Eliav, U. Kaldor, Y. Ishikawa, and P. Pyykko
Element 118: The First Rare Gas with an Electron Affinity
Phys. Rev. Lett., 77, pp. 5350-2 (1996)
4. E. Eliav, U. Kaldor, and B. Hess
The relativistic Fock-space coupled-Cluster method for molecules: CdH and its ions
J. Chem. Phys., 108, pp 3409-15 (1998)
5. A. Landau, E. Eliav and U. Kaldor
Intermediate Hamiltonian Fock-Space Coupled-Cluster Method
Chem. Phys. Lett., 313, pp. 399-403 (1999)
6. L. Visscher, E. Eliav and U. Kaldor
Formulation and implementation of the relativistic Fock-Space Coupled Cluster
Method for Molecules
J. Chem. Phys., 115 (21), pp 9720-9726 (2001)
7. E. Eliav, A. Landau, and U. Kaldor
Relativistic Coupled-Cluster Studies of Negative Ions
Negative Ion Chemistry", Theoretical Prospect of Negative Ions , ed. J. Kalcher
(Research Signpost, Kerala, India, 2002) pp. 99-115.
8. U. Kaldor, E. Eliav and A. Landau
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In "Theoretical Chemistry and Physics of Heavy and Superheavy Elements", ed. U.
Kaldor and S. Wilson, Kluwer Academic Publishers, 2003, Chapter 5, pp. 171-210
9. Ephraim Eliav, Marius J Vilkas, Yasuyuki Ishikawa and Uzi Kaldor
Ionization potentials of alkali atoms: towards meV accuracy
Chemical Physics, 311, pp 163-168 (2005)
10. Ephraim Eliav, Marius J Vilkas, Yasuyuki Ishikawa and Uzi Kaldor
Extrapolated intermediate Hamiltonian coupled-cluster approach: Theory and pilot
application to electron affinities of alkali atoms.
J. Chem. Phys., 122(22), 224113/1-224113/5, (2005)