

LIST OF PUBLICATIONS :

I. CHAPTERS IN BOOKS:

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High-Accuracy Calculations for Heavy and Super-Heavy Elements
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2. U. Kaldor and E. Eliav
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3. A. Landau, E. Eliav, and U. Kaldor
Intermediate Hamiltonian Fock-space coupled-cluster method
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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.
5. A. Landau, E. Eliav, and U. Kaldor
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, in ``Reviews of Modern Quantum Chemistry'', ed. K. Sen (World Scientific, Singapore, 2002), pp.260--292
7. U. Kaldor, E. Eliav and A. Landau
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11. E. Eliav, U. Kaldor
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12. E. Eliav and U. Kaldor
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In "Recent progress in coupled cluster methods: Theory and Applications", eds. J. Pittner, P. Charsky and J. Paldus (Springer, 2010), p. 113-144

II. ARTICLES

1. M.N. Adamov, N.P. Borisova, E.M. Ilyabaev
Use of semi-floating orbitals in the calculations of molecules.
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2. M.N. Adamov, N.P. Borisova, E.M. Ilyabaev
Calculations of diatomic molecules using an ellipsoidal basis with floating focuses.
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3. M.N. Adamov and E.M. Ilyabaev
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10. E. Eliav, U. Kaldor, Y. Ishikawa
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15. E. Eliav, U. Kaldor, Y. Ishikawa
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19. E. Eliav, U. Kaldor, Y. Ishikawa, M. Seth and P. Pyykko
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Huyse, N. Imai, U. Kaldor, Yuri Kudryavtsev, U. Köster, J. F. W. Lane, J. Lassen, V. Liberati, K. M. Lynch, B. A. Marsh, K. Nishio, D. Pauwels, V. Pershina, L. Popescu, T. J. Procter, D. Radulov, S. Raeder, M. M. Rajabali, E. Rapisarda, R. E. Rossel, K. Sandhu, M. D. Seliverstov, A. M. Sjödin, P. Van den Bergh, P. Van Duppen, M. Venhart, Y. Wakabayashi, K. D. A. Wendt
Measurement of the first ionization potential of astatine by laser ionization spectroscopy.
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III. Scientific computer programs.

1. Coauthor of **DIRAC scientific program for calculation of molecular properties**.

(DIRAC, a relativistic ab initio electronic structure program, Release DIRAC11 (2011), written by R. Bast, H. J. Aa. Jensen, T. Saue, and L. Visscher, with contributions from V. Bakken, K. G. Dyall, S. Dubillard, U. Ekström, E. Eliav, T. Enevoldsen, T. Fleig, O. Fossgaard, A. S. P. Gomes, T. Helgaker, J. K. Lærdahl, J. Henriksson, M. Iliaš, Ch. R. Jacob, S. Knecht, C. V. Larsen, H. S. Nataraj, P. Norman, G. Olejniczak, J. Olsen, J. K. Pedersen, M. Pernpointner, K. Ruud, P. Sałek, B. Schimmelpfennig, J. Sikkema, A. J. Thorvaldsen, J. Thyssen, J. van Stralen, S. Villaume, O. Visser, T. Winther, and S. Yamamoto (see <http://dirac.chem.vu.nl>).

2. Principle coauthor of **TRAFS-3C (Tel-Aviv Relativistic Atomic Fock-Space coupled-cluster code)** (written by E.Eliav, U.Kaldor and Y.Ishikawa in 1990-2013).