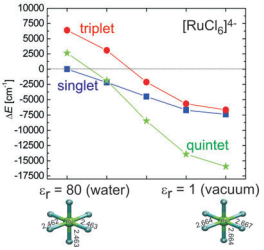
Collect. Czech. Chem. Commun.
2008, *73*, 1231–1244

Are Octahedral Ruthenium(II/III) and Osmium(II/III) Complexes Always Low-Spin?

Martin Srnec, Jakub Chalupský and Lubomír Rulíšek



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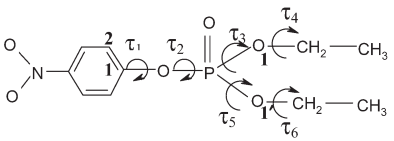
2008, *73*, 1245–1260

Probing the Active Conformers of Paraoxon Through Theoretical Conformational Studies

Jason Ford-Green, Devashis Majumdar and Jerzy Leszczynski



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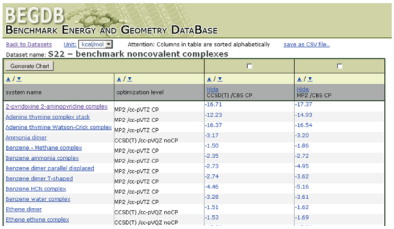
2008, *73*, 1261–1270

Quantum Chemical Benchmark Energy and Geometry Database for Molecular Clusters and Complex Molecular Systems (www.begdb.com): A Users Manual and Examples

Jan Řezáč, Petr Jurečka, Kevin E. Riley, Jiří Černý, Haydee Valdes, Kristýna Pluháčková, Karel Berka, Tomáš Řezáč, Michal Pitoňák, Jiří Vondrášek and Pavel Hobza



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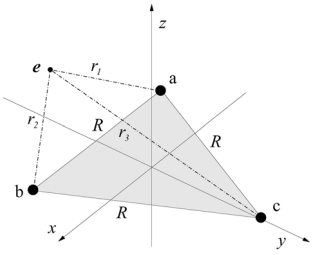
2008, *73*, 1271–1280

About Non-Existence of the Molecular Ion

Héctor Medel-Cobaxin, Alexander Alijah and Alexander V. Turbiner



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2008, *73*, 1281–1298

Generalized Spin Bases for Quantum Chemistry and Quantum Information

Maurice R. Kibler

$$|\langle j\alpha;ra|\, j\beta;rb\rangle = \delta_{\alpha,\beta}\delta_{a,b} + \frac{1}{\sqrt{2j+1}}(1-\delta_{a,b})$$

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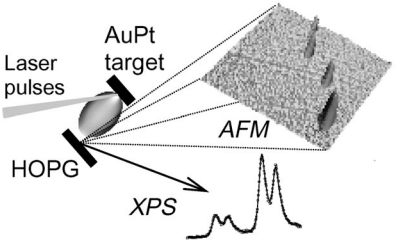
2008, *73*, 1299–1313

Preparation of Au-Pt Nanostructures on Highly Oriented Pyrolytic Graphite Surfaces by Pulsed Laser Deposition and Their Characterization by XPS and AFM Methods

Jan Plšek, Pavel Janda and Zdeněk Bastl



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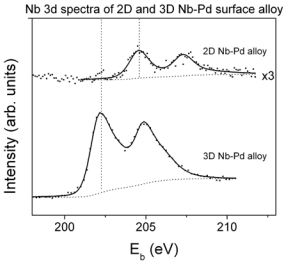
2008, *73*, 1314–1326

Interaction of Niobium with Polycrystalline Palladium Surface. X-ray Photoemission Study

Ivan Jirka and Zdeněk Bastl



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2008, *73*, 1327–1339

Analytic Energies and Wave Functions of Two-Dimensional Schrödinger Equation: Two-Dimensional Fourth-Order Polynomial Potential

Vladimír Tichý and Lubomír Skála

$$H\psi = E\psi$$

$$V = W_{40}^2 x^4 + W_{04}^2 y^4 + V_{31} x^3 y + V_{13} x y^3 + V_{22} x^2 y^2 + \ldots$$

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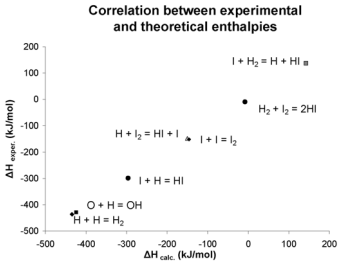
2008, *73*, 1340–1356

Thermodynamic Data of Iodine Reactions Calculated by Quantum Chemistry. Training Set of Molecules

Katarína Mečiarová, Laurent Cantrel and Ivan Černušák



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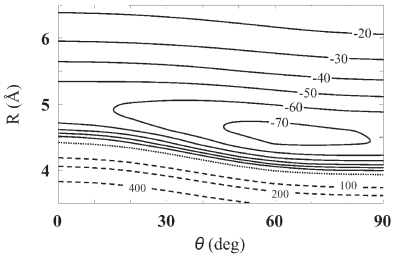
2008, *73*, 1357–1371

Theoretical Study of the vdW Complex $Cd\cdots N_2$

Michal Ilčin, Vladimír Lukeš, Viliam Laurinc and Stanislav Biskupič



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2008, *73*, 1372–1390

Quasi-Exactly Solvable Models in Quantum Chemistry

Jacek Karwowski and Kamil Szewc