

Petr Čársky
List of publications

A Books

1. R. Zahradník, P. Čársky: Organic Quantum Chemistry Problems. Plenum Press, New York 1973, 222 p.
New editions:
Hirokawa Publishing Company, Tokyo, 1979 (Japanese),
SNTL, Praha 1978 (Czech).
2. R. Zahradník, P. Čársky: Sbíрка úloh z aplikací kvantové chemie. Státní pedagogické nakladatelství, Praha 1967, 174 p.
3. P. Hobza, P. Čársky, J. Pancíř, R. Zahradník: Výklad k programům pro kvantově chemické výpočty. Státní pedagogické nakladatelství, Praha 1972, 140 p.
4. P. Čársky, J. Pancíř, R. Zahradník: Molekulové orbitály v chemii. Academia, Praha 1974, 140 p.
5. P. Čársky, M. Urban: Ab Initio Calculations. Methods and Applications in Chemistry. Lecture Notes in Chemistry, Vol. 18. Springer-Verlag, Berlin 1980, 247 p.
Czech edition: Ab initio výpočty v chemii. SNTL, Praha 1985, 279 p.
6. P. Čársky: Anglicko-český a česko-anglický chemický slovník. SNTL, Praha 1988 a 1989 (theoretical chemistry).

B Journal papers

1. P. Čársky, P. Zuman, V. Horák: Fission of Activated Carbon-Nitrogen and Carbon-Sulphur Bonds. V. Polarographic Study of Elimination of β -Morpholino Prophiophenone. *Collect. Czech. Chem. Commun.* 29, 3044-3056 (1964).
2. P. Zuman, P. Čársky: Reaktionskinetik einer umkehrbaren Reaktion, die mit zwei schnell sich einstellenden Gleichgewichten verbunden ist. *Z. Phys. Chem. (Leipzig)* 227, 278-280 (1964).
3. P. Čársky, P. Zuman, V. Horák: Fission of Activated Carbon-Nitrogen and Carbon-Sulfur Bonds. VII. Kinetics of Ketol Formation from α,β -Unsaturated Ketones in Alkaline Media. *Collect. Czech. Chem. Commun.* 30, 4316-4336 (1965).
4. P. Čársky, P. Zuman: The Use of Simple Molecular Orbital Theory to Elucidate the Polarographic Behaviour of Some para-Substituted Benzonitriles. *Collect. Czech. Chem. Commun.* 34, 497-503 (1969).
5. R. Zahradník, P. Čársky: Conjugated Radicals. I. Introductory Remarks and Method of Calculation. *J. Phys. Chem.* 74, 1235-1239 (1970).
6. R. Zahradník, P. Čársky: Conjugated Radicals. II. Semiempirical Calculations of Electronic Spectra of Radical Anions Derived from Alternant Hydrocarbons. *J. Phys. Chem.* 74, 1240-1248 (1970).
7. P. Čársky, R. Zahradník: Conjugated Radicals. III. Calculations of Electronic Spectra of Alternant Odd Radicals of the Allyl, Benzyl, and Phenalenyl Types. *J. Phys. Chem.* 74, 1249-1254 (1970).
8. P. Čársky, S. Hünig, D. Scheutzow, R. Zahradník: Conjugated Radicals. IV. Theoretical Study of Redox Equilibria. *Tetrahedron* 25, 4781-4796 (1969).

9. P. Čársky, R. Zahradník: Conjugated Radicals. V. Semiempirical Calculations on the Electronic Spectra of Perylene, α,ω -Diphenylpolyene and Polyphenyl Anion Radicals. *Collect. Czech. Chem. Commun.* 35, 892-898 (1970).
10. P. Čársky, R. Zahradník: Conjugated Radicals. VI. Semiempirical Open-Shell PPP-Like Calculation with Doubly Excited Configurations on the Naphthalene Radical Anion. *Theoret. Chim. Acta* 17, 316-319 (1970).
11. R. Zahradník, P. Čársky, S. Hünig, G. Kiesslich, D. Scheutzow: Conjugated Radicals. VII. Tetrathiofulvalene and a Note on Sulfur-Containing Conjugated Radicals. *Int. J. Sulfur Chem.* C6, 109-122 (1971).
12. P. Čársky, R. Zahradník: Conjugated Radicals. VIII. A Comparison of the Open Shell SCF Results Obtained by the Method of Longuet-Higgins and Pople and by the Method of Roothaan. *Collect. Czech. Chem. Commun.* 36, 961-969 (1971).
13. S. Hünig, D. Scheutzow, P. Čársky, R. Zahradník: Conjugated Radicals. IX. Experimental Study and the LCI-SCF Open Shell Calculations on the Electronic Spectra and the Redox Equilibria of the Nitrogen-Containing Violenes. *J. Phys. Chem.* 75, 335-339 (1971).
14. P. Čársky, O. Chalvet, S. Hünig, D. Scheutzow, R. Zahradník: Conjugated Radicals. X. Bisazulenylethylene and Related Systems. *Collect. Czech. Chem. Commun.* 36, 560-566 (1971).
15. P. Čársky, P. Hobza, R. Zahradník: Conjugated Radicals. XI. para-Semiquinones. *Collect. Czech. Chem. Commun.* 36, 1291-1300 (1971).
16. P. Čársky, R. Zahradník: Conjugated Radicals. XII. CNDO Calculations on the Electronic Spectra of Butadiene Cation and Anion Radicals. *Theoret. Chim. Acta* 20, 343-351 (1971).
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19. R. Zahradník, V. Rejholec, P. Hobza, P. Čársky, K. Hafner: Conjugated Radicals. XIV. Electronic Spectra and Semiempirical Calculations on Radical Anions of Acenaphthylene, Fluoranthene and Aceheptylene. *Collect. Czech. Chem. Commun.* 37, 1983-1989 (1972).
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23. P. Čársky: Vybrané kapitoly z aplikované kvantové chemie. IV. Chemické aplikace semiempirických metod molekulárních orbitů uvažujících všechny valenční elektrony. Fysikálně chemické vlastnosti. *Chem. listy* 66, 910-936 (1972).
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- P. Čársky: Physical Properties and Reactivity of Radicals. *Prog. Phys. Org. Chem.* 10, 327-380 (1973).
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 28. I. Nykl, A. Fojtík, P. Hobza, P. Čársky, R. Zahradník, T. Shida: Electronic Spectra of Azulene Mononegative and Monopositive Ions and Semiempirical Open-Shell PPP-Like Calculations. *Collect. Czech. Chem. Commun.* 38, 1459-1462 (1973).
 29. I. Nykl, V. Rejholec, P. Hobza, P. Čársky, R. Zahradník, K. Hafner: Conjugated Radicals. XVII. Electronic Spectra of Radical Ions Derived from Pentaleno[6,6a,1,2-def]heptalene and 2-Phenylcyclopent[cd]azulene and Semiempirical Open Shell PPP-Like Calculations. *Collect. Czech. Chem. Commun.* 38, 1463-1465 (1973).
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 34. J. Kuhn, P. Čársky, R. Zahradník: SCF-CI MO Treatment of Radicals Having Degenerate Ground States. *Theoret. Chim. Acta* 33, 263-268 (1974).
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 39. P. Čársky, R. Zahradník, P. Hobza: Semiempirical Estimates of the Correlation Energy in Small Clusters of Hydrogen Atoms. *Theoret. Chim. Acta* 40, 287-295 (1975).
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