

LIST OF PUBLICATIONS

(i) Publications:

(a) Contributions in books as follows:

1. Molecular Basis of Cancer, Part A: "The MCS-model of Chemical Initiation of Cancer"; R. Rein (Ed.) A.R. Liss, New York 1985. p. 327
2. Polynuclear Aromatic Compounds
L. B. Ebert (Ed) Adv. in Chemistry
Series 217, American Chemical Society Washington, D.C. 1988
Chapter 17, p. 287-307, jointly with W. C. Herndon.
3. Recent advances of Chemistry and Molecular Biology in Cancer Research
Q. Dai, M.A. Armour and Q. Zheng (Eds) Springer Verlag,
Berlin, 1993.
Preface and 2 Articles pp. 77, 219.
4. The chemistry sections of the new Grade 9 High School Integrated Science Textbook "Exploring our World: Book 3"
Ministry of Education Youth and Culture, Kingston, Jamaica, 1998,
jointly with R. Ghosh.
5. The Chapter "Polycyclic Aromatic Hydrocarbon Carcinogenicity; Experimental Facts and Theoretical Modeling"
in "Theoretical and Computational Chemistry" Vol. 5,
Eds. P. Politzer and Z. Maksic, Elsevier, Netherlands, 1998, p. 447-500.
jointly with R. Ghosh.

(b) Monographs:

1. Der Mechanismus der spektralen Sensibilisierung des photographischen Prozesses im Silberbromid. Ph.D. Thesis, Basel and Marburg, 1969.
2. Grundlagen und Anwendungen der MO Theorie. Part 1. Stuttgart, 1980.
3. Grundlagen und Anwendungen der MO Theorie. Part 2. Stuttgart, 1981.
4. Ausbau der Elektronengas und PMO-Methoden und Modellrechnungen zur chemischen Kanzerogenität. DSc Thesis, Stuttgart, 1984.

(c) Articles published in refereed journals:

1. Transfer of Energy and Electrons in Assemblies of Monolayers. H. Bucher, H. Kuhn, B. Mann, D. Möbius, L. v. Szentpaly and P. Tillman.
Phot. Sci. Eng. 11 (1967) 233.
2. Proof of Energy Transfer and Absence of Electron Injection in Spectral Sensitization of Evaporated AgBr by Oxacarbocyanine.
L.v. Szentpaly, D. Möbius and H. Kuhn
J. Chem. Phys. 52 (1970) 4618.
3. Tunnelling through Fatty Acid Monolayers and its Relevance to Photographic Sensitization
B. Mann, H. Kuhn and L.v. Szentpaly
Chem. Phys. Lett. 8(1971) 82
4. "Metallic Reflectance" in Molecular Crystals
H.J. Hesse, W. Fuhs, G. Weiser and L.v. Szentpaly
Chem. Phys. Lett. 41 (1976) 104
5. Directional Dispersion of an Excitation Polariton in a Pentamethinium Cyanine Dye.
H.J. Hesse, W. Fuhs, G. Weiser and L.v. Szentpaly
Phys. Stat. Sol. B 76 (1976) 817
6. Molecular Model Potentials: Combination of Atomic Boxes
L.v. Szentpaly
Theoret. Chim. Acta 52 (1979) 277
7. Correlation of Free-Electron Molecular Orbital Energies with π -Ionization Energies of Aromatic Hydrocarbons
L.v. Szentpaly (Dedicated to Prof. Hans Kuhn)
Chem. Phys. Lett. 67 (1979) 63
8. Inorganic and Biological π -Electron Systems Computed with a Pocket Calculator
L.v. Szentpaly
J. Mol. Struct. 60 (1980) 391
9. Electrophilic Aromatic Substitution: a Free-Electron Approach.
L.v. Szentpaly
Chem. Phys. Lett. 77 (1981) 352
10. Excitation Energies of Polycyclic Aromatic Hydrocarbons obtained by a Quantum Chemical Pencil and Paper PMO:F Method.
L.v. Szentpaly
J. Photochem. 17 (1981) 112

11. Potential Curves for the Alkali Dimers and their Cations:
a New Spectroscopic Rule and its Predictions
L.v. Szentpaly
Chem. Phys. Lett. 88 (1982) 321
12. A Proper Account of Core-Polarization with Pseudopotentials:
Single Valence-Electron Alkali Compounds
P. Fuentealba, H. Preuss, H. Stoll and L.v. Szentpaly
Chem. Phys. Lett. 89 (1982) 418
13. Pseudopotential Calculations on Rb, Cs, RbH, CsH
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14. Pseudopotential Calculations Including Core-Valence
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J. Mol. Struct. 93 (1983) 213
15. On the Reliability of Semiempirical Pseudopotentials:
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P. Fuentealba, H. Stoll, L.v. Szentpaly, P. Schwerdtfeger
and H. Preuss
J. Phys. B 16 (1983) L 323
16. Cu and Ag as One-Valence-Electron Atoms:
Pseudopotential Results for Cu, Ag, CuH, Ag
H. Stoll, P. Fuentealba, M. Dolg, J. Flad, L.v. Szentpaly
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17. Cu and Ag as One-Valence-Electron Atoms: CI Results and
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H. Stoll, P. Fuentealba, P. Schwerdtfeger, J. Flad,
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H. Stoll, L.v. Szentpaly, P. Fuentealba, J. Flad,
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19. Carcinogenesis by Polycyclic Aromatic Hydrocarbons:
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L.v. Szentpaly
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20. A comparison of Pencil and Paper Procedures:
PMO, Free-Electron PMO, and Structure-Resonance Theory
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21. Pseudopotential Calculations for Alkaline Earth Atoms
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22. Correlation and Relativistic Effects in Pseudopotential
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P. Schwerdtfeger, L.v. Szentpaly, Kh. Vogel, H. Silberbach,
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23. Quantitative Differences in Biotransformation Between the
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31. Implicaciones de la Conjugacion sigma
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47. Valence States and a Universal Potential Energy Curve for Covalent and Ionic Bonds.
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