

**Publikationsliste 1971 - 1980**

- 6b) D. Stehlik  
*Double Resonance Relaxation Studies*  
Proc. Ampere Summer School II, Basko Polje 1971 (R. Blinc, ed.)
- 7a) H. Zimmermann, D. Stehlik, K. H. Hausser  
*Excitation of Triplet Excitons in Aromatic Single Crystals by Guest-Host Energy Transfer*  
Chem. Phys. Lett. 11 (1971), 496
- b) D. Stehlik, H. Haas, H. Zimmermann  
*Efficient Donor-Singlet to Host-Triplet Energy Transfer in Fluorene Single Crystals*  
VIth Mol. Cryst. Symp. Elmau (1973), p. 144-148
- 8) J. P. Colpa, K. H. Hausser, D. Stehlik  
*Optical Nuclear Polarization by Selective Population of Nuclear Substates*  
Z. Naturforsch. 26a (1971), 1792
- 9) H. Schuch, D. Stehlik, K. H. Hausser  
*Optische Kern-Spin-Polarisation in Molekülkristallen*  
Z. Naturforsch. 26a (1971), 1944
- 10) O. Lauer, D. Stehlik, K. H. Hausser  
*Nuclear Zeeman and Dipolar Relaxation Due to Slow Motion in Aromatic Single Crystals*  
J. Magn. Res. 6 (1972), 524
- 11) J. P. Colpa, D. Stehlik  
*A Mechanism for the Optical Nuclear Spin Alignment in Zero Magnetic Field*  
Z. Naturforsch. 27a (1972), 1695
- 12) P. Lau, D. Stehlik, K. H. Hausser  
*Optical Nuclear Polarization of Protons in Fluorene- $d_8$  Single Crystals*  
J. Magn. Res. 15 (1974), 270
- 13) M. Sprinzl, E. Krämer, D. Stehlik  
*On the Structure of Phenylalanine tRNA from Yeast. Spin Label Studies*  
FEBS Eur. J. Biochem. 49 (1974), 595
- 14) P. Lau, D. Stehlik, K. H. Hausser  
*Cross Relaxation Effects in Optical Nuclear Polarization*  
*I. Experiments in Fluorene and Anthracene Single Crystals*  
Proc. XVIII Congress Ampere, Nottingham (1974), Vol. 1 p. 229, ed. P. S. Allen,  
E. R. Andrew, C. A. Bates

- 15) D. Stehlik  
*II. Optical Nuclear Polarization by Selective Cross Relaxation*  
ibid. Vol. 1 p. 230
- 16) D. Stehlik, A. Doehring, J. P. Colpa, E. Callaghan, S. van Kessel  
*Optical Nuclear Polarization in Molecular Crystals Through an Optical Excitation Cycle*  
Chem. Phys. 7 (1975), 165
- 17) O. Schrecker, R. Stein, W. Hengstenberg, M. Gassner, D. Stehlik  
*The Staphylococcal PEP Dependent Phosphotransferase System*  
*Proton Magnetic Resonance Studies on the Phosphoryl Carrier Protein HPr*  
FEBS-Lett. 51 (1975), 309
- 18) D. Stehlik  
*The Mechanism of Optical Nuclear Polarization in Molecular Crystals*  
Habilitationsschrift, April 1975, Universität Heidelberg  
publ. in : *Excited States*, Vol. 3 (1977) 203-303 ed. E. C. Lim, Academic Press
- 19) M. Gassner, D. Stehlik, O. Schrecker, W. Hengstenberg, W. Maurer, Heinz Rüterjans  
*The Phosphoenolpyruvate-Dependent Phosphotransferase System of Staphylococcus aureus*  
2.  $^1\text{H}$  and  $^{31}\text{P}$  NMR-Studies of the Phosphocarrier Protein HPr, Phosphohistidines and Phosphorylated HPr  
Eur. J. Biochem. 75 (1977), 257-296
- 20) W. Maurer, Heinz Rüterjans, O. Schrecker, W. Hengstenberg, M. Gassner, D. Stehlik  
3.  $^1\text{H}$  and  $^{31}\text{P}$  Nuclear-Magnetic-Resonance Studies on the Phosphocarrier Protein HPR; Tyrosine Titration and Denaturation Studies  
ibid. 75 (1977), 297-301
- 21) J. P. Colpa, D. Stehlik  
*Optical Nuclear Polarization as a Consequence of the Non-Crossing Rule*  
*Analytical treatment of ONP in the level-crossing region*  
Chem. Phys. 21 (1977), 273-288
- 22) J. P. Colpa, D. Stehlik  
*The influence of electronic relaxation*  
Chem. Phys. 21 (1977), 289-299
- 23) D. Stehlik, P. Rösch, P. Lau, H. Zimmermann, K. H. Hausser  
*Experimental results and evidence for guest-host complexes in doped fluorene crystals*  
Chem Phys. 21 (1977), 301-309
- 24) G. Dittrich, D. Stehlik, K. H. Hausser  
*Optische Kernspin Polarisation (ONP) in Anthracen dotiert mit Phenazin im Temperaturbereich 1.4...300 K*  
Z. Naturforschg. 32a (1977), 652-658

- 25) H. R. Kalbitzer, D. Stehlik, W. Hasselbach  
*The Binding of Calcium and Magnesium to Sarcoplasmic Reticulum Vesicles as Studied by Manganese Electron Paramagnetic Resonance*  
Eur. J. Biochem. 82 (1978), 245-255
- 26a) D. Stehlik, R. Furrer  
*Magnetic Resonance Studies of Short-lived Triplet State Complexes in Doped Molecular Crystals using Optical Nuclear Polarisation (ONP) and EPR*  
8th Mol. Cryst. Symp., St. Barbara, CA., June 1977
- 26b) R. Furrer, D. Stehlik  
*EPR-Spectroscopy of the Excited Triplet State Complex in Acridine Doped Fluorene Single Crystals*  
Proc. 3rd Spec. Coll. Ampere Dublin 1977 p. 283  
publ. in *Semicond. and Insulators* 4 (1978), 295
- 27) D. Stehlik  
*Nuclear Polarization by Optically Excited Triplet States in Aromatic Molecular Crystals*  
Proc. 3rd Spec. Coll. Ampere Dublin 1977 p. 187  
publ. in *Semicond. and Insulators* 4 (1978), 197-230
- 28) J. P. Colpa, F. Seiff, D. Stehlik  
*Magnetic Field Dependence of Phosphorescence Intensity and Optical Nuclear Polarization (ONP) as a Result of Level-Anti-Crossing (LAC) and Relaxation in Excited Triplet States*  
Chem. Phys. 33 (1978) p. 79-91
- 29) R. Furrer, M. Heinrich, D. Stehlik, H. Zimmermann  
*Radical Pair Formation from Excited States in Doped Aromatic Crystals*  
*EPR studies of the guest-host system acridine-fluorene*  
Chem. Phys. 36 (1979) 27-40
- 30) H.-M. Vieth, V. Macho, D. Stehlik  
*Radio Frequency Induced Magnetic Resonance Transitions in Excited Molecular Triplet States as detected via Optical Nuclear Polarisation*  
Chem. Phys. Lett. 60 (1979) 368
- 31) H. R. Kalbitzer, D. Stehlik  
*On the Analysis of Competitive Binding of Various Ligands to Cooperative and Independent Binding Sites of Macromolecules*  
Z. Naturforschg. 34c (1979) 757-769
- 32) D. Stehlik  
*Magnetic Resonance Studies of Short-lived Triplet State Photoproducts in Aromatic Crystals. EPR-, RF-Saturation- and Level Anti Crossing Spectroscopy as detected within an Optical Excitation Cycle*  
Proc. Intern. Conf. RAMIS 79, Posen, 1979; ed. N. Pislewski

- 33) R. Furrer, J. Petersen, D. Stehlik  
*Photochemical Hydrogen Transfer Reaction in Phenazine doped Fluorene Crystals*  
Chem. Phys. 44 (1979) 1-7
- 34) V. Macho, J. P. Colpa, D. Stehlik  
*Radical Pair Formation From Excited States in doped Aromatic Crystals*  
*Optical Nuclear Polarisation (ONP) Studies*  
Chem. Phys. 44 (1979) 113-129
- 35) H.-M. Vieth, V. Macho, D. Stehlik  
*Photochemical Hydrogen Abstraction in doped Fluorene Crystals.*  
*Proton Hyperfine Structure via Optical Nuclear Polarization detected RF-saturation*  
*Spectroscopy.*  
Contribution to the "Weissman-Symposium", Argone, 1979  
J. Phys. Chem. 83 (1979) 3435-3440
- 37) U. Haerberlen, D. Stehlik, O. Lauer  
*Some experimental and Theoretical Aspects of Nuclear Dipolar Relaxation*  
Proc. XVI Coll. Ampere, Bukarest 1980, p. 664-668
- 36) D. Stehlik, R. Furrer, V. Macho  
*Magnetic Resonance Studies of Photochemical Hydrogen Abstraction in Aromatic*  
*Single Crystals*  
Contribution to the "Weissman-Symposium", Argone, 1979  
J. Phys. Chem. 83 (1979) 3440-3444
- 38) J. P. Colpa, D. Stehlik, H.-M. Vieth  
*Radio Frequency (RF-) Saturation Spectroscopy as detected via Optical Nuclear*  
*Polarization. Mechanisms due to ESR- and NMR-Transitions in Excited Triplet States*  
Chem. Phys. 47 (1980) 73-85
- 39) R. Furrer, F. Fujara, C. Lange, D. Stehlik, H.-M. Vieth, W. Vollmann  
*Transient ESR Nutation Signals in Excited Aromatic Triplet States*  
Chem. Phys. Lett. 75 (1980) 332-339
- 40) R. Furrer, F. Fujara, C. Lange, D. Stehlik, W. Vollmann  
*Radical Pair Formation and Decay by Photochemical Hydrogen Transfer in Doped*  
*Fluorene Crystals by ESR Transient Nutation*  
Chem. Phys. Lett. 76 (1980) 383-389
- 41a) F. Seiff, S. Bergmeister, C. V. Borczykowski, D. Stehlik  
*Transport of Excitation Energy in Doped Molecular Crystals Involving Deep and*  
*Shallow Triplet Traps*  
IX Mol. Crystal Symposium 1980, p. 269-272
- b) H. Klöcker, S. Bergmeister, F. Seiff, D. Stehlik  
*Transport of Excitation Energy in Molecular Crystals with Deep and Shallow Traps as*  
*studied by ODMR and Optical Spectroscopy*  
ISMAR-Ampere Int. Conf. on Magn. Res., Delft  
Bull. Magn. Res. 2 (1980) 126

