

Literaturverzeichnis

- [1] R. Marcus. On the theory of oxidation-reduction reactions involving electron transfer. I. *J. Chem. Phys.*, **24**:966 (1956)
- [2] R. Marcus. Electron transfer reactions in chemistry — theory and experiment (Nobel lecture). *Angew. Chem. Int. Ed. Engl.*, **32**:1111 (1993)
- [3] V. May und O. Kühn. *Charge and Energy Transfer Dynamics in Molecular Systems* (Wiley-VCH, Berlin, 2000)
- [4] P. Dirac. The theory of quantum mechanics. *Proc. Royal Soc. (London)*, **A112**:661 (1926)
- [5] E. Schrödinger. Quantisierung als Eigenwertproblem (Erste Mitteilung). *Ann. Phys.*, **79**:361 (1926)
- [6] E. Schrödinger. Quantisierung als Eigenwertproblem (Zweite Mitteilung). *Ann. Phys.*, **79**:489 (1926)
- [7] E. Schrödinger. Quantisierung als Eigenwertproblem (Dritte Mitteilung. Störungstheorie mit Anwendung auf den Starkeffekt der Balmerlinien). *Ann. Phys.*, **80**:437 (1926)
- [8] E. Schrödinger. Quantisierung als Eigenwertproblem (Vierte Mitteilung). *Ann. Phys.*, **81**:109 (1926)
- [9] E. Schrödinger. Der stetige Übergang von der Mikro- zur Makromechanik. *Naturwiss.*, **14**:664 (1926)
- [10] W. Heisenberg. Mehrkörperprobleme und Resonanz in der Quantenmechanik. *Z. Phys.*, **38**:411 (1926)

- [11] M. Klessinger und J. Michl. *Excited States and Photochemistry of Organic Molecules* (VCH Publishers, Inc., 1995)
- [12] B. O. Roos, M. P. Fülcher, P.-Å. Malmqvist, M. Merchán und L. Serrano-Andrés. Theoretical Studies of Electronic Spectra of Organic Molecules. In S. R. Langhoff, Editor, *Quantum Mechanical Electronic Structure Calculations with Chemical Accuracy*, 357 (Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995)
- [13] A. Zewail. Laser selective chemistry — is it possible? *Physics Today*, **33**:2 (1980)
- [14] A. Zewail. Optical molecular dephasing: Principles of and probings by coherent laser spectroscopy. *Acc. Chem. Res.*, **13**:360 (1980)
- [15] A. H. Zewail. Laser femtochemistry. *Science*, **242**:1645 (1988)
- [16] E. Lippert, W. Lüder, F. Moll, W. Nägele, H. Boos, H. Prigge und I. Seiboldt-Blankenstein. Umwandlung von Elektronenanregungsenergie. *Angew. Chem.*, **73**:695 (1961)
- [17] W. Rettig. Photoinduced charge separation via twisted intramolecular charge transfer states. In J. Mattay, Editor, *Electron Transfer I, Vol. 169: Topics in Current Chemistry*, 253 (Springer, 1994)
- [18] Z. R. Grabowski, K. Rotkiewicz, A. Siemiarczuk, D. J. Cowley und W. Baumann. Twisted intramolecular charge transfer states (TICT). A new class of excited states with full charge separation. *Nouv. J. Chim.*, **3**:443 (1979)
- [19] E. Lippert, W. Lüder und H. Boos. Fluoreszenzspektrum und Frank-Condon-Prinzip in Lösungen aromatischer Verbindungen. In A. Mangini, Editor, *Advances in Molecular Spectroscopy*, volume 73, 695 (Pergamon Press, Oxford, 1962)
- [20] D. Cowley. Polar Pocket with non polar lining. *Nature*, **319**:14 (1986)
- [21] J. Platt. Classification of Spectra of Cata-Condensed Hydrocarbons. *J. Chem. Phys.*, **17**:484 (1949)
- [22] O. Khalil, R. Hofeldt und S. McGlynn. *J. Lumin.*, **6**:229 (1973)
- [23] O. Khalil, R. Hofeldt und S. McGlynn. *Spectrosc. Lett.*, **6**:147 (1973)

- [24] N. Nakashima, M. Murakawa und N. Mataga. Picosecond Flash Spectroscopy of Solvent-Induced Intramolecular Electron Transfer in the Excited 9,9'-Bianthryl. *Bull. Chem. Soc. Jpn.*, **49**:854 (1976)
- [25] E. Kosower und H. Dodiuk. Multipole Fluorescence. II. A New Scheme for 4-(N,N-Diamino)-benzotrile Including Proton Transfer. *J. Am. Chem. Soc.*, **98**:924 (1976)
- [26] W. Baumann und H. Bischof. Critical refinement of the theory of integral electro-optical emission measurements. *J. Mol. Struct.*, **129**:125 (1985)
- [27] H. Bischof, W. Baumann, N. Detzer und K. Rotkiewicz. Gas-Phase Dipole moments of Molecules in their fluorescent state. *Chem. Phys. Lett.*, **116**:180 (1985)
- [28] E. A. Chandross. Complexes of Dipolar Excited States and Small Polar Molecules. In M. Gordon und W. R. Ware, Editors, *The Exciplex*, 187 (Academic Press, New York San Francisco London, 1975)
- [29] R. J. Visser und C. A. G. O. Varma. Source of Anomalous Fluorescence from Solutions of 4-N,N-Dimethylaminobenzonitril in Polar Solvents. *J. Chem. Soc. Faraday Trans. II*, **76**:453 (1980)
- [30] M. C. C. de Lange, D. T. Leeson, K. A. B. van Kujik, A. H. Huizer und C. A. G. O. Varma. On the source of the anomalous fluorescence of 4-(dialkylamino)benzotrile in aromatic hydrocarbons solvents: the role of the exciplexes. *Chem. Phys.*, **174**:425 (1993)
- [31] G. Koehler und K. Rotkiewicz. Solvent interactions in the excited state of non-planar donor-acceptor molecules. *Spectrochim. Acta A*, **42**:1127 (1986)
- [32] P. Suppan. The role of the solvent in the dual luminescence of 4-(N,N-dimethylamino)benzotrile. *Chem. Phys. Lett.*, **128**:160 (1986)
- [33] O. Kajimoto, T. Nayuki und T. Kobayashi. Picosecond dynamics of the twisted intramolecular charge-transfer state formation of 4-(N,N-dimethylamino)benzotrile (DMABN) in supercritical fluid solvent. *Chem. Phys. Lett.*, **209**:63 (1993)
- [34] K. A. Zachariasse, M. Grobys und E. Tauer. Absence of dual fluorescence with 4-(dimethylamino)phenylacetylne. A comparison between experimental results and theoretical predictions. *Chem. Phys. Lett.*, **274**:372 (1997)

- [35] S. Grimme und M. Waletzke. A Combination of Kohn-Sham Density Functional Theory and Multi-Reference Configuration Interaction Methods. *J. Phys. Chem.*, **111**:5645 (1999)
- [36] A. B. J. Parusel. A DFT/MRCI study on the excited state charge transfer states of N-pyrrolobenzene, N-pyrrolobenzonitril and 4-N,N-dimthylaminobenzonitril. *Phys. Chem. Chem. Phys.*, (2000). In press
- [37] K. Andersson, P.-Å. Malmqvist, B. O. Roos, A. J. Sadlej und K. Wolinski. Second-Order Perturbation Theory with a CASSCF Reference Function. *J. Phys. Chem.*, **94**:5483 (1990)
- [38] K. Andersson, P.-Å. Malmqvist und B. O. Roos. Second-Order Perturbation Theory with a Complete Active Space Self-Consistent Field Reference Function. *J. Chem. Phys.*, **96**:1218 (1992)
- [39] L. Serrano-Andrés, M. Merchán, B. O. Roos und R. Lindh. Theoretical Study of the Internal Twisting in Aminobenzonitriles. *J. Am. Chem. Soc.*, **117**:3189 (1995)
- [40] A. L. Sobolewski und W. Domcke. Charge Transfer in aminobenzonitriles: do they twist? *Chem. Phys. Lett.*, **250**:428 (1996)
- [41] A. L. Sobolewski und W. Domcke. Promotion of Intramolecular Charge Transfer in Dimethylamino Derivatives: Twisting Versus Acceptor Group Rehybridization. *Chem. Phys. Lett.*, **259**:119 (1996)
- [42] C. Monte, A. Roggan, A. Subaric-Leitis, W. Rettig und P. Zimmermann. Resonance Effects of Diabatic Surface Crossing within the Torsional Spectrum of 9-(N-Carbazolyl) Anthracene Observed by Supersonic Jet Fluorescence Spectroscopy. *J. Chem. Phys.*, **98**:2580 (1993)
- [43] J. Manz, B. Proppe und B. Schmidt. From Torsional Spectra to Hamiltonians and Dynamics: Effects of Coupled Bright and Dark States of 9-(N-Carbazolyl) Anthracene. *Z. Phys.D.*, **34**:111 (1995)
- [44] J. Giraud-Girard, J. Manz und C. Scheurer. Twist Dynamics of 9-(N-Carbazolyl) Anthracene: Effects of Intramolecular Vibrational Redistribution and Non-Adiabatic Transitions in Coupled Bright and Dark States. *Z. Phys. D*, **39**:291 (1997)

- [45] W. Rettig und F. Marschner. Population of excited charge transfer states and molecular conformation in N-phenylpyrroles. *Nouv. J. Chim.*, **7**:425 (1983)
- [46] H. Lumbroso, D. M. Bertin und F. Marschner. A dipole moment study on gradually hindered N-phenylpyrroles. *J. Mol. Struct.*, **178**:187 (1988)
- [47] K. Okuyama, Y. Numata, S. Odawara und I. Suzuka. Electronic spectra of jet-cooled 1-phenylpyrrole: Large-amplitude torsional motion and twisted intramolecular charge-transfer phenomenon. *J. Chem. Phys.*, **109**:7185 (1998)
- [48] A. Sarkar und S. Chakravorti. A study on the spectroscopy and photophysics of N-phenyl pyrrole and N-phenyl pyrazole. *Chem. Phys. Lett.*, **235**:195 (1995)
- [49] W. M. F. Fabian. Conformational Behaviour of Phenylpyrrols - a Semiempirical Molecular Orbital Study. *Z. Naturforsch.*, **42a**:641 (1987)
- [50] W. M. F. Fabian. AM1 Calculations of Rotation around Essential Single Bonds and Preferred Conformations in Conjugated Molecules. *J. Comp. Chem.*, **9**:369 (1988)
- [51] A. Szabo und N. S. Ostlund. *Modern Quantum Chemistry: Introduction to Advanced Electronic Structure Theory* (Macmillan Publishing Co., Inc., New York, 1982)
- [52] I. N. Levine. *Quantum Chemistry* (Prentice-Hall, Englewood Cliffs, New Jersey, 1991)
- [53] R. Poirier, R. Kari und I. G. Csizmadia. *Handbook of Gaussian Basis Sets* (Elsevier Science, New York, 1985)
- [54] C. Cohen-Tannoudji, B. Diu und F. Laloë. *Quantum Mechanics*, volume I (Wiley-Interscience, New York, 1977)
- [55] C. Cohen-Tannoudji, B. Diu und F. Laloë. *Quantum Mechanics*, volume II (Wiley-Interscience, New York, 1977)
- [56] A. Messiah. *Quantenmechanik*, volume II (Walter de Gruyter, Berlin, 1979)
- [57] W. J. H. L. R. P. v. R. Schleyer und J. A. Pople. *Ab Initio Molecular Orbital Theory* (Wiley-Interscience, New York, 1986)

- [58] P. E. M. Siegbahn. The Configuration Interaction Method. In B. O. Roos, Editor, *Lecture Notes in Quantum Chemistry* (Springer, Berlin, 1992)
- [59] M. Born und R. Oppenheimer. Zur Quantentheorie der Molekeln. *Ann. Phys.*, **84**:457 (1927)
- [60] D. R. Hartree. *Proc. Cambridge Phil. Soc.*, **24**:111 (1928)
- [61] C. Møller und M. S. Plesset. Note on an approximation treatment for many-electron systems. *Phys. Rev.*, **46**:618 (1934)
- [62] H.-J. Werner. Matrix-formulated direct multiconfiguration self-consistent field and multiconfiguration reference configuration-interaction methods. In K. P. Lawley, Editor, *Ab initio Methods in Quantum Chemistry II* (Wiley, 1987)
- [63] C. C. J. Roothaan. New developments in molecular orbital theory. *Rev. Mod. Phys.*, **23**:69 (1951)
- [64] P. O. Löwdin. On the Non-Orthogonality Problem Connected with the use of Atomic Wave Functions in the Theory of Molecules and Crystals. *J. Chem. Phys.*, **18**:365 (1950)
- [65] J. B. Foresman, M. Head-Gordon, J. A. Pople und M. J. Frisch. Toward a Systematic Molecular Orbital Theory for Excited States. *J. Phys. Chem.*, **96**:135 (1992)
- [66] J. B. Foresman und A. Frisch. *Exploring Chemistry with Electronic Structure Methods* (Gaussian, Inc., Pittsburgh, PA, 1996), 2 edition
- [67] J. A. Pople, R. Seeger und R. Krishnan. Variational Configuration Interaction Methods and Comparison with Perturbation Theory. *Int. J. Quant. Chem. Symp.*, **11**:149 (1977)
- [68] R. Krishnan, H. B. Schlegel und J. A. Pople. *J. Chem. Phys.*, **72**:4654 (1980)
- [69] B. O. Roos. The Complete Active Space Self-Consistent Field Method and its Applications in Electronic Structure Calculations. In K. P. Lawley, Editor, *Advances in Chemical Physics; Ab Initio Methods in Quantum Chemistry - II*, chapter 69, 399 (John Wiley & Sons Ltd., Chichester, England, 1987)

- [70] K. Andersson, M. R. A. Blomberg, M. P. Fülcher, G. Karlstöm, R. Lindh, P.-Å. Malmqvist, P. Neogrády, J. Olsen, B. O. Roos, A. J. Sadlej, M. Schütz, L. Seijo, L. Serrano-Andrés, P. E. M. Siegbahn und P.-O. Widmark. *MOLCAS Version 4.0*. Dept. of Theor. Chem., Chem. Center, Univ. of Lund, P.O.B. 124, S-221 00 Lund, Sweden, Lund (1997)
- [71] GAUSSIAN 94, Revision D.4, M. J. Frisch, G. W. Trucks, H. B. Schlegel, P. M. W. Gill, B. G. Johnson, M. A. Robb, J. R. Cheeseman, T. Keith, J. A. Peterson, J. A. Montgomery, K. Raghavachari, M. A. Al-Laham, V. G. Zakrzewski, J. V. Ortiz, J. B. Foresman, J. Cioslowski, B. B. Stefanov, A. Nanayakkara, M. Challacombe, C. Y. Peng, P. Y. Ayala, W. Chen, M. W. Wong, J. L. Andres, E. S. Replogle, R. Gomperts, R. L. Martin, D. J. Fox, J. S. Binkley, D. J. Defrees, J. Baker, J. P. Stewart, M. Head-Gordon, C. Gonzalez, J. A. Pople, Gaussian, Inc., Pittsburgh PA, 1995.
- [72] J. Paldus. In H. Eyring und D. G. Henderson, Editors, *Theoretical Chemistry: Advances and Perspectives*, volume 2 (Academic Press, New York, 1976)
- [73] H. Haken und H. C. Wolf. *Molekülphysik und Quantenchemie* (Springer, Berlin, 1991)
- [74] W. Demtröder. *Laserspektroskopie* (Springer, Berlin, 1993), 3 edition
- [75] J. M. Hollas. *Moderne Methoden in der Spektroskopie* (Vieweg, Braunschweig, 1995)
- [76] J. Hylton-McCreery, R. E. Christoffersen und G. G. Hall. On the Development of Quantum Mechanical Solvent Effect Models. Macroscopic Electrostatic Contributions. *J. Am. Chem. Soc.*, **98**:7191 (1976)
- [77] R. Constanciel und O. Tapia. On the Theory of Solvent Effects. *Theor. Chim. Acta*, **48**:75 (1978)
- [78] S. Miertus, E. Scrocco und J. Tomasi. Electrostatic interaction of a solute with a continuum. A direct utilization of ab initio molecular potentials for the prevision of solvent effects. *Chem. Phys.*, **55**:117 (1981)
- [79] C. J. Cramer und D. G. Truhlar. General Parametrized SCF Model for Free Energies of Solvation in Aqueous Solution. *J. Am. Chem. Soc.*, **113**:8305 (1991)

- [80] M. M. Karelson und M. C. Zerner. Theoretical Treatment of Solvent Effects on Electronic Spectroscopy. *J. Phys. Chem.*, **96**:6949 (1992)
- [81] J. Tomasi und M. Perisco. Molecular Interactions in Solution: An Overview of Methods Based on Continuous Distributions of the Solvent. *Chem. Rev.*, **94**:2027 (1994)
- [82] L. Serrano-Andrés, M. P. Fülcher und G. Karlström. Solvent Effects on Electronic Spectra Studied by Multiconfigurational Perturbation Theory. *Int. J. Quantum Chem.*, **65**:167 (1997)
- [83] M. P. Fülcher und B. O. Roos. The Excited States of Pyrazine: A Basis Set Study. *Theor. Chim. Acta*, **87**:403 (1994)
- [84] P.-O. Widmark, P.-Å. Malmqvist und B. O. Roos. Density Matrix Averaged Atomic Natural Orbital (ANO) Basis Sets for Correlated Molecular Wave Functions. I. First Row Atoms. *Theor. Chim. Acta*, **77**:291 (1990)
- [85] <http://www.emsl.pnl.gov:2080/forms/basisform.html>
- [86] M. Rubio, M. Merchán und E. Ortí. The internal rotational barrier of biphenyl studied with multiconfigurational second-order perturbation theory (CASPT2). *Theor. Chim. Acta*, **91**:17 (1995)
- [87] M. Rubio, M. Merchán, E. Ortí und B. O. Roos. A Theoretical Study of the Electronic Spectrum of Biphenyl. *Chem. Phys. Letters*, **234**:373 (1995)
- [88] L. Serrano-Andrés, M. Merchán, B. O. Roos und R. Lindh. Theoretical Study of the Internal Charge Transfer in Aminobenzonitriles. *J. Am. Chem. Soc.*, **117**:3189 (1995)
- [89] R. Meyer. Trigonometric interpolation method for one-dimensional quantum-mechanical problems. *J. Chem. Phys.*, **52**:2053 (1970)
- [90] C. C. Marston und G. G. Balint-Kurti. The Fourier grid Hamiltonian method for bound state eigenvalues and eigenfunctions. *J. Chem. Phys.*, **91**:3571 (1989)
- [91] D. Kosloff und R. Kosloff. A Fourier method solution for the time dependent Schrödinger equation as a tool in molecular dynamics. *J. Comp. Phys.*, **52**:35 (1983)

- [92] R. Bisseling, R. Kosloff und J. Manz. Dynamics of hyperspherical and local mode resonance decay studied by time dependent wave packet propagation. *J. Chem. Phys.*, **83**:993 (1985)
- [93] S. Wolfram. *The MATHEMATICA Book* (Wolfram Media/Cambridge University Press, Cambridge, 1996), 3 edition. (<http://www.wolfram.com/>)
- [94] J. Franck. Elementary processes of photochemical reactions. *Trans. Faraday Soc.*, **21**:536 (1926)
- [95] E. Condon. A theory of intensity distributions in band systems. *Phys. Rev.*, **28**:1182 (1926)
- [96] F. Evers, J. Giraud-Girard, S. Grimme, J. Manz, C. Monte, M. Ooppel, W. Rettig, P. Saalfrank und P. Zimmermann. Absorption and Fluorescence Excitation Spectra of 9-(N-carbazolyl)-anthracene: Effects of Intramolecular Vibrational Redistribution and Diabatic Transitions Involving Electron Transfer. *submitted*, (2000)
- [97] R. Schinke. *Photodissociation Dynamics*. Cambridge Monographs on Atomic, Molecular, and Chemical Physics (Cambridge University Press, Cambridge, 1993)
- [98] L. Verlet. Computer experiments on classical fluids. I. Thermodynamical properties of Lennard-Jones molecules. *Phys. Rev.*, **159**:98 (1967)
- [99] W. C. Swope, H. C. Andersen, P. H. Berens und K. R. Wilson. A computer simulation method for the calculation of equilibrium constants for the formation of physical clusters of molecules: application to small water clusters. *J. phys. chem.*, **76**:637 (1982)
- [100] G. C. Maitland, M. Rigby, E. B. Smith und W. A. Wakeham. *Intermolecular Forces. Their Origin and Determination* (Clarendon Press, Oxford, 1981)
- [101] W. L. Jorgensen und T. B. Nguyen. Monte Carlo simulations of the Hydration of substituted Benzenes with OPLS potential functions. *J. Comp. Phys.*, **14**:195 (1993)
- [102] W. L. Jorgensen und J. M. Briggs. Monte Carlo simulations of liquid acetonitrile with a three-site model. *Mol. Phys.*, **63**:547 (1988)

- [103] D. Lim und W. L. Jorgensen. SCRF/Monte Carlo study of solvent effects on a Plar [2+2] Cycloaddition. *J. Phys. Chem.*, **100**:17490 (1996)
- [104] C. M. Breneman und K. B. Wiberg. Determining atom-centered monopoles from molecular electrostatic potentials. The need for high sampling density in formamide conformational analysis. *Comp. Chem.*, **11**:361 (1990)
- [105] D. C. Rapaport. *The Art of Molecular Dynamics Simulation* (Cambridge University Press, Cambridge, 1995)
- [106] M. P. Allen und D. J. Tildesley. *Computer Simulations of Liquids* (Clarendon, Oxford, 1987)
- [107] J.-P. Ryckaert, G. Ciccotti und J. C. Berendsen. Numerical integration of the cartesian equations of motion of a system with constraints: Molecular Dynamics of n-Alkenes. *J. Comp. Phys.*, **23**:327 (1977)
- [108] H. C. Andersen. Rattle: A 'Velocity' version of the shake algorithm for molecular dynamics calculations. *J. Comp. Phys.*, **52**:24 (1983)
- [109] W. Sudholt, A. Staib, A. L. Sobolewski und W. Domcke. Molecular-Dynamics Simulations of Solvent Effects in the Intramolecular Charge Transfer of 4-(N,N-dimethylamino)benzotrile. *Phys. Chem. Chem. Phys.*, **2**:4341 (2000)
- [110] K. Honma, K. Arita und K. Y. O. Kajimoto. Microscopic solvation of acetone to 9,9'-binathryl studies in a free jet: Polar excited state formation. *J. Chem. Phys.*, **94**:3496 (1991)
- [111] P. J. M. van Laarhoven und E. H. L. Aarts. *Simulated Annealing: Theory and Practice* (Kluwer Academic Publishers, Dordrecht, the Netherlands, 1987)
- [112] H. J. C. Berendsen, D. van der Spoel und R. van Drunen. GROMACS: a message-passing parallel molecular dynamics implementation. *Computer Physics Communications*, **91**:43 (1995). ISSN 0010-4655
- [113] W. F. van Gunsteren und H. J. C. Berendsen. *Gromos-87 manual*. Biomos BV Nijenborgh 4, 9747 AG Groningen, The Netherlands (1987)
- [114] J. Ruthmann, S. A. Kovalenko, N. P. Ernsting und D. Ouw. Femtosecond relaxation of 2-amino-7-nitrofluorene in acetonitril: Observation of the oscillatory contribution to the solvent response. *J. Chem. Phys.*, **109**:5466 (1998)

-
- [115] M. Maroncelli. Computer simulations of solvation dynamics in acetonitrile. *J. Chem. Phys.*, **94**:2084 (1991)
- [116] P. V. Kumar und M. Maroncelli. Polar solvation dynamics of polyatomic solutes: Simulation studies in acetonitrile and methanol. *J. Chem. Phys.*, **103**:3038 (1995)
- [117] R. M. Stratt und M. Maroncelli. Nonreactive Dynamics in Solution: The Emerging Molecular View of Solvation Dynamics and Vibrational Relaxation. *J. Phys. Chem.*, **100**:12981 (1996)
- [118] D. Henderson und M. Chen. Perturbative solution to order beta epsilon of the Percus-Yevick equation of the square-well potential. (Fluid theory). *Journal of Mathematical Physics*, **16**:2042 (1975). ISSN 0022-2488
- [119] G. Ciccotti, M. Ferrario und J.-P. Ryckaert. Molecular dynamics of rigid systems in cartesian coordinates A general formulation. *Mol. Phys.*, **47**:1253 (1982)
- [120] M. M. Hurley und S. Hammes-Schiffer. Development of a Potential Surface for Simulation of Proton and Hydride Transfer Reactions in Solution: Application to NADH Hydride Transfer. *J. Phys. Chem.*, **101**:3977 (1997)
- [121] J. Manz und L. Wöste, Editors. *Femtosecond Chemistry* (VCH Verlagsgesellschaft, Weinheim, 1995)

