

Publications of Bryan Earl Kohler

1. Electronic states of linear polyenes: High resolution spectroscopy of cis- and trans-1,3,5,7,9-decapentaene. Kohler, Bryan E.; Terpougov, Victor. *J. Chem. Phys.* **1998**, *108* (22), 9586–93.
2. Inhomogeneous broadening of electronic spectra in organic model systems. Geissinger, Peter; Kohler, Bryan E.; Kulikov, Serguei G.; Terpougov, Victor. *J. Chem. Phys.* **1998**, *108* (5), 1821–9.
3. Experimental determination of internal electric fields in ordered systems: myoglobin and cytochrome c. Geissinger, P.; Kohler, B. E.; Woehl, J. C. *Synth. Met.* **1997**, *84* (1–3), 937–8.
4. Measuring Internal Electric Fields in Proteins Using Hole-Burning Spectroscopy. *Proceedings of the International Conference on Lasers '96*; Geissinger, Peter; Kohler, Bryan E.; Woehl, Jorg C. Society for Optical and Quantum Electronics, Washington, DC., 1997; pp 319–32.
5. Two-photon excitation spectra of the higher lying m^1A_g states of octatetraene. Kohler, Bryan E.; Terpougov, Victor. *Synth. Met.* **1997**, *84* (1–3), 927–28.
6. Effects of internal electric fields and electrostatic potentials on optical spectra of linear polyenes. Kohler, Bryan E.; Woehl, Joerg C. *Synth. Met.* **1997**, *84* (1–3), 859–60.
7. Conjugation lengths in long polyene chains. Kohler, Bryan E.; Woehl, Joerg C. *Synth. Met.* **1997**, *84* (1–3), 851–2.
8. Classical and quantum mechanical models for Stark experiments. Kohler, Bryan E.; Woehl, Jorg C. *Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A* **1996**, *291*, 119–34.
9. Transition frequency and internal electronic field for protoporphyrin-IX in myoglobin. Geissinger, Peter; Kohler, Bryan E.; Woehl, Joerg. *Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A* **1996**, *283* (Proceedings of the 7th International Conference on Unconventional Photoactive Systems, 1995), 249–54.
10. Internal electric fields and inhomogeneous broadening: protoporphyrin-IX in myoglobin. Geissinger, Peter; Kohler, Bryan E.; Woehl, Jorg C. *Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A* **1996**, *283*. (Proceedings of the 7th International Conference on Unconventional Photoactive Systems, 1995), 69–74.
11. Octatetraene m^1A_g states: Two-photon fluorescence excitation spectrum from 28,000 to 50,000 cm^{-1} . Kohler, Bryan E.; Terpougov, Victor. *J. Chem. Phys.* **1996**, *104* (23), 9297–9303.
12. Measuring internal electric fields with atomic resolution. Kohler, Bryan E.; Woehl, Jorg C. *J. Chem. Phys.* **1996**, *104* (8), 3148.
13. Electric field and structure in the myoglobin heme pocket. Geissinger, Peter; Kohler, Bryan E.; Woehl, Joerg C. *J. Phys. Chem.* **1995**, *99* (45), 16527–9.
14. A simple model for conjugation lengths in long polyene chains. Kohler, Bryan E.; Woehl, Jorg, C. *J. Chem. Phys.* **1995**, *103* (14), 6253–6.
15. Experimental determination of conjugation lengths in long polyene chains. Kohler, Bryan E.; Samuel, I. D. W. *J. Chem. Phys.* **1995**, *103* (14), 6248–52.
16. Molecular orbital coefficients and transition dipoles of real polyenes. Kohler, Bryan E.; Malysheva, Lyuba I.; Onipko, Alexander I. *J. Chem. Phys.* **1995**, *103* (14), 6068–75.
17. Electric field effects in molecular systems studied via persistent hole burning. Kohler, Bryan E.; Personov, Roman I.; Woehl, Jorg C. *Tech. Chem. (N. Y.)* **1995**, *23*, 283–323.
18. Measuring internal electric fields with atomic resolution. Kohler, Bryan E.; Woehl, Jorg C. *J. Chem. Phys.* **1995**, *102* (20), 7773–81.
19. Electronic structure of carotenoids. Kohler, Bryan E. *Carotenoids*; Britton, G., Liaaen-Jenson, S., Pfander, H., Eds.; Birkhaeuser: Basel, Switzerland, 1995; Vol. 1B, pp 1–12.
20. Optical response of linear polyenes: extension of the simple model for linear polyene electronic structure. Duchowski, John K.; Kohler, Bryan E. *Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A* **1994**, *256*, 449–57.
21. Fluorescence quantum yields of α,ω -diphenylpolyenes. Itoh, Takao; Kohler, Bryan E.; Spangler, Charles W. *Spectrochim. Acta, Part A* **1994**, *50A* (13), 2261–3.
22. Spectroscopic determination of molecular fields for octatetraene in n-alkane crystals. Kohler, Bryan E. *J. Lumin.* **1994**, *60*–61, 458–61.
23. Electric Field Effects In Molecular Systems Studied Via Persistent Hole Burning. Kohler, B. E.; Personov, R. I.; Woehl, J.C. *Laser Techniques in Chemistry* Rizzo, T., Myers, A. B., Eds., Techniques of Chemistry Series; Wiley: New York, 1994; Chapter VIII, pp 283–323.
24. Molecular electronic spectroscopy. Kohler, Bryan E. *Eur. Mater. Res. Soc. Monogr.* **1993**, *6* (Organic Materials for Photonics), 61–76.
25. Chemical and electronic structure of the early stages of interface formation between aluminum and α,ω -diphenyltetradecaheptaene. Dannetun, P.; Loeglund, M.; Fredriksson, C.; Boman, M.; Stafstrom, S.; Salaneck, W. R.; Kohler, B. E.; Spangler, C. *Proceedings of the 1st International Conference on Polymer-Solid Interfaces*; Pireaux, J.-J., Bertrand, P., Bredas, J. L., Eds.; IOP Publishers: Bristol, U.K., 1992; pp 201–12.
26. Excited State Dynamics in Isolated 2,2'-Bithiophene. Buma, Wybren J.; Kohler, Bryan E.; Shaler, T. A. *J. Phys. Chem.* **1994**, *98* (19), 4990–2.
27. Optical Spectra of Isolated s-cis- and s-trans-Bithiophene: Torsional Potential in the Ground and Excited States. Chadwick, Janice E.; Kohler, Bryan E. *J. Phys. Chem.* **1994**, *98* (14), 3631–7.
28. The lowest excited singlet state of 1,4-diphenyl-1,3-cyclopentadiene Ci, Xiaopei; Kohler, Bryan E.; Moller, Soren; Shaler, Thomas A.; Yee, W. *Atom J. Phys. Chem.* **1993**, *97* (8), 1515–20.
29. Octatetraene photoisomerization. Kohler, Bryan E. *Chem. Rev.* **1993**, *93* (1), 41–54.
30. The 2^1A_g state of isolated cis,trans-1,3,5,7-octatetraene: two-color resonance enhanced two-photon ionization studies. [Erratum to document cited in Chem. Abstr. **1992**, 71280r.] Buma, Wybren Jan; Kohler, Bryan E.; Shaler, T. A. *J. Chem. Phys.* **1992**, *96* (10), 7875.

31. Electric field splitting of the octatetraene $1^1A_g \rightarrow 2^1A_g$ transition in n-hexane. Gradl, Gerhard; Kohler, Bryan E.; Westerfield, Curtis. *J. Chem. Phys.* **1992**, 97 (9), 6064–71.
32. Electronic properties of linear polyenes. Kohler, Bryan E. *Conjugated Polymers*; Bredas, J. L., Silbey, R. J., Eds.; Kluwer: Dordrecht, Netherlands, 1991; pp 405–34.
33. The lowest excited singlet state of isolated 1-phenyl-1,3-butadiene and 1-phenyl-1,3,5-hexatriene. Buma, Wybren Jan; Kohler, Bryan E.; Nuss, John M.; Shaler, Thomas A.; Song, Kyuseok. *J. Chem. Phys.* **1992**, 96 (7), 4860–8.
34. Location of a 1^1A_g state in bithiophene. Birnbaum, Duane; Kohler, Bryan E. *J. Chem. Phys.* **1992**, 96 (4), 2492–5.
35. The lowest energy singlet state of tetrathiophene, an oligomer of polythiophene. Birnbaum, Duane; Fichou, Denis; Kohler, Bryan E. *J. Chem. Phys.* **1992**, 96 (1), 165–9.
36. The 2^1A_g state of isolated cis,trans-1,3,5,7-octatetraene: two-color resonance enhanced two-photon ionization studies. Buma, Wybren Jan; Kohler, Bryan E.; Shaler, T. A. *J. Chem. Phys.* **1992**, 96 (1), 399–407.
37. Electronic structure of thiophene and pyrrole dimers: 2,2'-bithiophene, 2,2'-thienylpyrrole, and 2,2'-bipyrrole. Birnbaum, Duane; Kohler, Bryan E. *J. Chem. Phys.* **1991**, 95 (7), 4783–9.
38. Polyene 2^1A_g and 1^1B_u states and the photochemistry of previtamin D₃. Dauben, William G.; Disanayaka, Bim-sara; Funhoff, Dirk J. H.; Zhou, Boli; Kohler, Bryan E.; Schilke, David E. *J. Am. Chem. Soc.* **1991**, 113 (22), 8367–74.
39. Linear polyene electronic structure: relaxed and vertical excitation energies. Kohler, Bryan E. *Synth. Met.* **1991**, 41 (3), 1215–23.
40. Lowest energy excited singlet states of isomers of alkyl substituted hexatrienes. Buma, Wybren Jan; Kohler, Bryan E.; Song, Kyuseok. *J. Chem. Phys.* **1991**, 94 (7), 4691–8.
41. Lowest energy excited singlet state of isolated cis-hexatriene. Buma, Wybren Jan; Kohler, Bryan E.; Song, Kyuseok. *J. Chem. Phys.* **1991**, 94 (10), 6367–76.
42. Transition dipoles of polyacetylene oligomers. Kohler, Bryan E.; Pescatore, John A., Jr. *NATO ASI Ser., Ser. E* **1990**, 182 Conjugated Polym. Mater.: Oppor. Electron., Optoelectron., Mol. Electron.), 353–64.
43. Electronic structure of donor or acceptor substituted linear polyenes. Kohler, Bryan E.; Spangler, Charles W.; Westerfield, Curtis. *J. Chem. Phys.* **1991**, 94 (2), 908–17.
44. Low lying singlet states of α,ω -dithienylpolyenes: α,ω -dithienylbutadiene, α,ω -dithienylhexatriene, and α,ω -dithienyloctatetraene. Birnbaum, Duane; Kohler, Bryan E.; Spangler, C. W. *J. Chem. Phys.* **1991**, 94 (3), 1684–91.
45. A simple model for linear polyene electronic structure. Kohler, Bryan E. *J. Chem. Phys.* **1990**, 93 (8), 5838–42.
46. Electronic structure of long polyenes: states and transition dipoles. Kohler, Bryan E. *Mater. Res. Soc. Symp. Proc.* **1990**, 173 (Adv. Org. Solid State Mater.), 649–58.
47. Octatetraene in n-hexane: the local phonon. Gradl, Gerhard; Kohler, Bryan E.; Westerfield, Curtis. *J. Lumin.* **1990**, 45 (1–6), 83–6.
48. Increase of the C:C a_g stretch mode of polyenes in the $2^1A_g^-$ state: *ab initio* MCSCF study of butadiene, hexatriene, and octatetraene. Aoyagi, Mutsumi; Ohmine, Iwao; Kohler, Bryan E. *J. Phys. Chem.* **1990**, 94 (10), 3922–6.
49. Location of the 2^1A_g state in hexatriene. Buma, Wybren Jan; Kohler, Bryan E.; Song, Kyuseok. *J. Chem. Phys.* **1990**, 92 (7), 4622–3.
50. Two-photon excitation, hyper-Raman scattering, and excited state decay processes for polyenes in free jet expansions. Horwitz, James S.; Itoh, Takao; Kohler, Bryan E.; Spiganin, Thomas A. *Proc. SPIE-Int. Soc. Opt. Eng.* **1989**, 1057 (Biomol. Spectrosc.), 72–81.
51. Photochemical hole burning for 1,3,5,7-octatetraene in n-hexane. Adamson, George; Grädl, Gerhard; Kohler, Bryan E. *J. Chem. Phys.* **1989**, 90 (6), 3038–42.
52. Lowest energy excited singlet state of 2,2':2'',2''-terthiophene, an oligomer of polythiophene. Birnbaum, Duane; Kohler, Bryan E. *J. Chem. Phys.* **1989**, 90 (7), 3506–10.
53. The 2^1A_g state in the linear polyene 2,4,6,8,10,12,14,16-octadecaoctaene. Kohler, Bryan E.; Spangler, Charles; Westerfield, C. *J. Chem. Phys.* **1988**, 89 (9), 5422–8.
54. Fluorescence from the 1^1B_u state of diphenylhexatriene: inversion of the 1^1B_u and 2^1A_g levels in carbon disulfide. Kohler, Bryan E.; Itoh, Takao. *J. Phys. Chem.* **1988**, 92 (18), 5120–2.
55. The polyene 2^1A_g state in polyacetylene photoinduced absorption and thermal isomerization. Kohler, Bryan E. *J. Chem. Phys.* **1988**, 88 (4), 2788–92.
56. Fluorescence from diphenylpolyene vapors. Itoh, Takao; Kohler, Bryan E. *J. Phys. Chem.* **1988**, 92 (7), 1807–13.
57. High resolution spectroscopy of diphenyldecapentaene and diphenyldodecahexaene. Horwitz, James S.; Itoh, Takao; Kohler, Bryan E.; Spangler, Charles W. *J. Chem. Phys.* **1987**, 87 (5), 2433–7.
58. Low-lying singlet states of a short polydiacetylene oligomer. Kohler, Bryan E.; Schilke, David E. *J. Chem. Phys.* **1987**, 86 (9), 5214–5.
59. Barriers in the excited 2^1A_g state for the cis, trans isomerization of cis,cis-octatetraene: general features of the excited state potential. Kohler, Bryan E.; Mitra, Pradip; West, Paul. *J. Chem. Phys.* **1986**, 85 (8), 4436–40.
60. Dual fluorescence of diphenylpolyenes. Itoh, Takao; Kohler, Bryan E. *J. Phys. Chem.* **1987**, 91 (7), 1760–4.
61. Holographic method and electron beam lithography for determining the average polymer chain length in diacetylene single crystals. Guttler, Wilfried; Bauer, Hans Dieter; Kohler, Bryan E.; Schwoerer, Markus. *Mol. Cryst. Liq. Cryst.* **1986**, 137 (1–4), 117–30.
62. Two-photon excitation spectrometer for dilute gases. Kohler, Bryan E.; Spiganin, Thomas A. *Rev. Sci. Instrum.* **1986**, 57 (5), 874–7.
63. Holographic method for determining the spatial extent of photochemistry: room-temperature photopolymerization of diacetylene TS6. Kohler, Bryan E.; Bauer, Hans Dieter; Kohler, Bern E.; Guettler, Wilfried; Schwoerer, Markus. *Chem. Phys. Lett.* **1986**, 125 (3), 251–6.

64. Influence of phonons on optically detected magnetic resonances of aromatic molecules in amorphous hosts. Gradl, G.; Friedrich, J.; Kohler, B. E. *J. Chem. Phys.* **1986**, *84* (4), 2079–83.
65. Two-photon excitation, hyper-Raman scattering, and excited state decay processes for polyenes in free jet expansions. Horwitz, J. S.; Kohler, B. E.; Spiglanin, T. A. *J. Phys., Colloq.* **1985**, *C7*, 381–9.
66. High resolution spectroscopy of polyacetylene oligomers: linear polyenes with 3 through 7 double bonds. Kohler, Bryan E. *Springer Ser. Solid-State Sci.* **1985**, *63* (Electron. Prop. Polym. Relat. Compd.), 100–6.
67. Two-photon excitation spectroscopy and excited state decay kinetics of isolated diphenylbutadiene. Horwitz, James S.; Kohler, Bryan E.; Spiglanin, Thomas A. *J. Chem. Phys.* **1985**, *83* (5), 2186–90.
68. The crystal structure of trans,trans-1,3,5,7-octatetraene as a model for fully-ordered trans-polyacetylene. Baughman, R. H.; Kohler, B. E.; Levy, I. J.; Spangler, C. *Synth. Met.* **1985**, *11* (1), 37–52.
69. Saturation kinetics of the S_0 to S_2 optical transition in isolated diphenylhexatriene. Kohler, Bryan E.; Spiglanin, Thomas A. *J. Chem. Phys.* **1985**, *82* (7), 2939–41.
70. Two-photon resonance-enhanced hyper-Raman scattering from diphenylbutadiene. Horwitz, James S.; Kohler, Bryan E.; Spiglanin, Thomas A. *J. Phys. Chem.* **1985**, *89* (9), 1574–6.
71. Electronic structure and spectra of finite linear polyenes. Hudson, Bruce S.; Kohler, Bryan E. *Synthetic Metals* **1984**, *9*, 241–252.
72. Polyene electronic structure and photochemistry: di-cis-octatetraene. Kohler, Bryan E. *Proceedings of the International Conference on Photochemistry and Photobiology*; Zewail, Ahmed H., Ed.; Harwood; Chur, Egypt, 1983; Vol. 2, pp 1177–89.
73. Photochemical site conversion: octatetraene in n-octane. Ackerman, John R.; Forman, Stuart A.; Katz, Larry; Kohler, Bryan E.; Wu, Konrad T. *J. Chem. Phys.* **1984**, *81* (8), 3387–92.
74. Fluorescence from the 1^1B_u state of trans,trans-1,3,5,7-octatetraene in a free jet. Heimbrook, Lou Ann; Kohler, Bryan E.; Levy, Irvin J. *J. Chem. Phys.* **1984**, *81* (4), 1592–7.
75. Structure and dynamics of excited singlet states of isolated diphenylhexatriene. Kohler, Bryan E.; Spiglanin, Thomas A. *J. Chem. Phys.* **1984**, *80* (11), 5465–71.
76. Double-bond isomerization barrier in the 2^1A_g excited singlet state of cis,trans-1,3,5,7-octatetraene. Ackerman, John R.; Kohler, Bryan E. *J. Am. Chem. Soc.* **1984**, *106* (12), 3681–2.
77. vibrationally resolved optical spectra of cis,trans-1,3,5,7-octatetraene. Kohler, Bryan E.; Spiglanin, Thomas A. *J. Chem. Phys.* **1984**, *80* (7), 3091–6.
78. The s-cis octatetraene: ground state barrier for s-cis to s-trans isomerization. Ackerman, John R.; Kohler, Bryan E. *J. Chem. Phys.* **1984**, *80* (1), 45–50.
79. The s-cis octatetraene: photoproduction and spectroscopic properties. Ackerman, John R.; Forman, Stuart A.; Hossain, Musharraf; Kohler, Bryan E. *J. Chem. Phys.* **1984**, *80* (1), 39–44.
80. Vibrational analysis of the lowest $1^1B_u^+$ state of trans,trans-1,3,5,7-octatetraene. Kohler, Bryan E.; Spiglanin, Thomas A.; Hemley, Russell J.; Karplus, Martin. *J. Chem. Phys.* **1984**, *80* (1), 23–30.
81. Site dependence of the 1^1A_g to 2^1A_g transition of all-trans-1,3,5,7-octatetraene. Kohler, Bryan E.; Snow, Judith Bannon. *J. Chem. Phys.* **1983**, *79* (5), 2134–8.
82. Free jet excitation and emission spectra of diphenylbutadiene. Heimbrook, Lou Ann; Kohler, Bryan E.; Spiglanin, Thomas A. *Proc. Natl. Acad. Sci. U.S.A.* **1983**, *80* (14), 4580–4.
83. Emission and one- and two-photon excitation spectra of the 1^1A_g - 2^1A_g origin region of cis-cis-octatetraene. Kohler, Bryan E.; West, Paul. *J. Chem. Phys.* **1983**, *79* (2), 583–6.
84. Linear polyene electronic structure and potential surfaces. Hudson, Bruce S.; Kohler, Bryan E.; Schulten, Klaus. *Excited States* **1982**, *6*, 1–95.
85. Lowest excited singlet state of hydrogen-bonded methyl salicylate. Heimbrook, LouAnn; Kenny, Jonathan E.; Kohler, Bryan E.; Scott, Gary W. *J. Phys. Chem.* **1983**, *87* (2), 280–9.
86. Photochemical preparation and identification of cis,cis-1,3,5,7-octatetraene. Hossain, Musharraf; Kohler, Bryan E.; West, Paul. *J. Phys. Chem.* **1982**, *86* (25), 4918–20.
87. Radiationless decay of 1,3,5,7-octatetraene. Ackerman, John Richard; Kohler, Bryan E.; Huppert, D.; Rentzepis, P. M. *J. Chem. Phys.* **1982**, *77* (8), 3967–73.
88. Dual fluorescence excitation spectra of methyl salicylate in a free jet. Heimbrook, Lou Ann; Kenny, Jonathan E.; Kohler, Bryan E.; Scott, Gary W. *J. Chem. Phys.* **1981**, *75* (10), 5201–3.
89. Free-jet fluorescence excitation spectrum of trans,trans-1,3,5,7-octatetraene. Heimbrook, Lou Ann; Kenny, Jonathan E.; Kohler, Bryan E.; Scott, Gary W. *J. Chem. Phys.* **1981**, *75* (9), 4338–42.
90. Franck-Condon analysis of the $1^1Ag \rightarrow 1^1Bu$, absorption in linear polyenes with two through six double bonds. Granville, Mark F.; Kohler, Bryan E.; Snow, Judith Bannon. *J. Chem. Phys.* **1981**, *75* (8), 3765–9.
91. The spectroscopy of a benzil-bibenzyl mixed crystal system. Lifetime and optical spin orientation studies. Kohler, Bryan E.; Loda, Richard T. *J. Chem. Phys.* **1981**, *75* (6), 2616–20.
92. Spectroscopy of benzil-bibenzyl clusters. Site selection in three-component mixtures. Kohler, Bryan E.; Loda, Richard T. *J. Chem. Phys.* **1981**, *74* (10), 5424–9.
93. The spectroscopy of a benzil-bibenzyl mixed crystal system. Effects of isotopic substitution. Kohler, Bryan E.; Loda, Richard T. *J. Chem. Phys.* **1981**, *74* (10), 5420–3.
94. Spectroscopy of the benzil-bibenzyl mixed crystal system: high resolution optical studies. Kohler, Bryan E.; Loda, Richard T. *J. Chem. Phys.* **(1981)** *74* (1), 18–24.
95. Absorption and emission of 2,12-dimethyltridecahexaene. Auerbach, Roy A.; Christensen, Ronald L.; Granville, Mark F.; Kohler, Bryan E. *J. Chem. Phys.* **1981**, *74* (1), 4–9.
96. Photodetachment spectroscopy of diatomic carbon (C_2^-) autodetaching resonances. Jones, P. L.; Mead, R. D.; Kohler, B. E.; Rosner, S. D.; Lineberger, W. C. *J. Chem. Phys.* **1980**, *73* (9), 4419–32.
97. High-resolution one and two photon excitation spectra of trans,trans-1,3,5,7-octatetraene. Granville, Mark F.; Holton, Gary R.; Kohler, Bryan E. *J. Chem. Phys.* **1980**, *72* (9), 4671–5.

98. Cis-trans Photoisomerization of 1,3,5,7-octatetraene in n-hexane at 4.2 K. Granville, Mark F.; Holtom, Gary R.; Kohler, Bryan E. *Proc. Natl. Acad. Sci. U.S.A.* **1980**, *77* (1), 31–3.
99. Absorption spectra for the complexes formed from vitamin A and β -lactoglobulin. Hemley, Russell; Kohler, Bryan E.; Siviski, Peter. *Biophys. J.* **1979**, *28* (3), 447–55.
100. The effects of strong excitation-phonon coupling on mixed crystal spectra: diphenylmethylene in benzophenone. Anderson, Richard J. M.; Kohler, Bryan E.; Stevenson, James M. *J. Chem. Phys.* **1979**, *71* (4), 1559–63.
101. Site selection spectroscopy. Kohler, Bryan E. *Chemical Biochemical Applied Lasers*; Moore, Charles Bradley, Ed.; Academic: New York, NY, 1979; Vol. 4, pp 31–53.
102. Resonance enhanced Raman spectrum of all-trans anhydروvitamin A. Auerbach, Roy A.; Granville, Mark F.; Kohler, B. E. *Biophys. J.* **1979**, *25* (3), 443–54.
103. Experimental confirmation of the dipole forbidden character of the lowest excited singlet state in 1,3,5,7-octatetraene. Granville, M. F.; Holtom, G. R.; Kohler, B. E.; Christensen, R. L.; D'Amico, K. L. *J. Chem. Phys.* **1979**, *70* (1), 593–4.
104. Ground and excited state dipole moments of all-trans-retinal and all-trans-retinylidene-n-butylamine in solution. Corsetti, James P.; Kohler, Bryan E. *J. Chem. Phys.* **1977**, *67* (11), 5237–43.
105. Electronic structure of polyenes related to the visual chromophore. A simple model for the observed band shapes. Hemley, Russell; Kohler, Bryan E. *Biophys. J.* **1977**, *20* (3), 377–82.
106. Visual chromophore electronic structure. Kohler, Bryan E. *Biophys. Struct. Mech.* **1977**, *3* (2), 101–6.
107. The origin of the chemiluminescence of phagocytosing granulocytes. Cheson, Bruce D.; Christensen, Ronald L.; Sperling, Richard; Kohler, Bryan E.; Babior, Bernard M. *J. Clin. Invest.* **1976**, *58* (4), 789–96.
108. Electron nuclear double resonance of triplet diphenylmethylene in P21 benzophenone: Conformation and spin distribution. Anderson, Richard J. M.; Kohler, Bryan E. *J. Chem. Phys.* **1976**, *65* (6), 2451–9.
109. High-resolution optical spectroscopy of polyenes related to the visual chromophore. Christensen, R. L.; Kohler, B. E. *J. Phys. Chem.* **1976**, *80* (20), 2197–200.
110. The effect of temperature and solvent environment on the conformational stability of 11-cis-retinal. Birge, Robert R.; Sullivan, Michael J.; Kohler, Bryan E. *J. Am. Chem. Soc.* **1976**, *98* (2), 358–67.
111. Electron paramagnetic resonance of triplet diphenylmethylene in single crystal benzophenone. Evidence for a low temperature phase transition. Anderson, Richard J. M.; Kohler, Bryan E. *J. Chem. Phys.* **1975**, *63* (12), 5081–6.
112. Narrow-line fluorescence spectra of perylene as a function of excitation wavelength. Abram, I. I.; Auerbach, R. A.; Birge, R. R.; Kohler, B. E.; Stevenson, J. M. *J. Chem. Phys.* **1975**, *63* (6), 2473–8.
113. Solvent shift broadening in the PMDR [phosphorescence microwave double resonance] spectrum of quinoxaline. Van Egmond, Jan; Kohler, Bryan E.; Chan, I. Y. *Chem. Phys. Lett.* **1975**, *34* (3), 423–6.
114. Vibronic coupling in polyenes. High resolution optical spectroscopy of 2,10-dimethylundecapentaene. Christensen, Ronald L.; Kohler, Bryan E. *J. Chem. Phys.* **1975**, *63* (5), 1837–46.
115. Magnetic rotation spectroscopy of tetraphenyl tin. Esherick, Peter; Kohler, Bryan E. *J. Chem. Phys.* **1974**, *61* (11), 4490–9.
116. Line narrowing and stimulated emission of perylene in n-octane at liquid helium temperatures. Abram, I.; Auerbach, R. A.; Birge, R. R.; Kohler, B. E.; Stevenson, J. M. *J. Chem. Phys.* **1974**, *61* (9), 3857–8.
117. Linear Polyene Electronic Structure and Spectroscopy. Hudson, Bruce S.; Kohler, B. E. *Annu. Rev. Phys. Chem.* **1974**, *25*, 437–460.
118. Excitation Spectroscopy of Retinal and Related Polyenes. Christensen, Ronald L.; Kohler, Bryan E. *Photochem. Photobiol.* **1974**, *19*, 401–410.
119. Low-temperature phase transition in benzil single crystals. Esherick, Peter; Kohler, Bryan E. *J. Chem. Phys.* **1973**, *59* (12), 6681–2.
120. Polarized fluorescence spectra of retinol and diphenyloctatetraene. Comments. Hudson, Bruce S.; Kohler, Bryan E. *Chem. Phys. Lett.* **1973**, *23* (1), 139.
121. Polyene spectroscopy. Lowest energy excited singlet state of diphenyloctatetraene and other linear polyenes. Hudson, Bruce S.; Kohler, Bryan E. *J. Chem. Phys.* **1973**, *59* (9), 4984–5002.
122. Low-resolution optical spectroscopy of retinyl polyenes. Low lying electronic levels and spectral broadness. Christensen, Ronald L.; Kohler, Bryan E. *Photochem. Photobiol.* **1973**, *18* (4), 293–301.
123. A Low-lying weak transition in the polyene α,ω -diphenyloctatetraene. Hudson, B. S.; Kohler, B. E. *Chem. Phys. Lett.* **1972**, *14* (3), 299–304.
124. Measurement of rapid photoprocesses using a modulated cw laser. Haug, Arne; Kohler, B. E.; Priestley, E. B.; Robinson, G. Wilse. *Rev. Sci. Instrum.* **1969**, *40* (11), 1439–44.
125. Electron nuclear double resonance in an organic molecule in a triplet ground state. Spin densities and shape of diphenylmethylene molecules in diphenylethylene single crystals. Hutchison, Clyde A., Jr.; Kohler, Bryan E. *J. Chem. Phys.* **1969**, *51* (8), 3327–35.
126. Optical Absorption Spectra of Substituted Methylenes Oriented in Single Crystals. Closs, Gerhard; Hutchison, Clyde A., Jr.; Kohler, Bryan E. *J. Chem. Phys.* **1966**, *44*, 413–414.
127. Electron Paramagnetic Resonance Spectra of the Ground State Triplet Diphenylmethylene and Fluorinylidene Molecules in Single Crystals. Brandon, R. W.; Closs, G. R.; Davoust, C. E.; Hutchison, C. A., Jr.; Kohler, B. E.; Silbey, R. *J. Chem. Phys.* **1965**, *43*, 2006.
128. Paramagnetic Resonance Absorption by Divalent Vanadium Ion in Cadmium Dichloride. Chan, I. Y.; Doetschman, D. C.; Hutchison, C. A., Jr.; Kohler, Bryan E.; Sout, J. W. *J. Chem. Phys.* **1965**, *42*, 1048–1050.