Publications of G. Wilse Robinson and Students[†,*]

1. The Interaction with Molecular Rotation of the Nuclear Electric Quadrupole Moments of Two Nuclei Having Spins 3/2. G. W. Robinson and C. D. Cornwell, *J. Chem. Phys.* **21**, 1436−1442 (1953).
2. The Microwave Spectrum of Phosgene. G. W. Robinson, *J. Chem. Phys.* **21**, 1741−1745 (1953).
3. An Emission Spectrum Attributed to Acetaldehyde. G. W. Robinson, *J. Chem. Phys.* **22**, 1147 (1953).
4. Techniques in the Study of Emission Spectra of Polyatomic Molecules − The Spectra of Benzaldehyde and Acetophenone. G. W. Robinson, *J. Chem. Phys.* **22**, 1384−1388 (1954).
5. Some Results of the High Dispersion Electronic Emission Spectrum of Formaldehyde. G. W. Robinson, *Can. J. Phys.* **34**, 699−710 (1956).
6. Electronic Spectrum of Monomeric Nitrogen Dioxide at Liquid Helium Temperature. G. W. Robinson, M. McCarty, Jr. and M. C. Keelty, *J. Chem. Phys.* **27**, 972−973 (1957).
7. On Asymmetric Rotors. G. W. Robinson, *J. Chem. Phys.* **27**, 1227−1228 (1957).
8. The Nature of Formaldehyde in Its Low-lying Excited States. G. W. Robinson and V. E. DiGiorgio, *Can. J. Chem.* **36**, 31−38 (1958).
9. Electronic Spectra of Free Radicals at 4.2 K − NH_2. G. W. Robinson and M. McCarty, Jr., *J. Chem. Phys.* **28**, 349−350 (1958).
10. Electronic Spectra of Free Radicals at 4 K − HNO, NH, and OH. G. W. Robinson and M. McCarty, Jr., *J. Chem. Phys.* **28**, 350 (1958).
11. Radical Spectra at Liquid Helium Temperatures. G. W. Robinson and M. McCarty, Jr. *Can. J. Phys.* **36**, 1590−1591 (1958).
12. Trapped NH_2 Radicals at 4.2 K. G. W. Robinson and M. McCarty, Jr., *J. Chem. Phys.* **30**, 999−1005 (1959).
13. Les Spectres d'Absorption Electroniques des Radicaux libres de Petite Dimension dans les Milieux Rigides Constitues par des Gaz Rares (Electronic Absorption Spectra of Small Free Radicals in Rare Gas Matarices). M. McCarty, Jr. and G. W. Robinson, *J. Chem. Phys.* **56**, 723−731 (1959).
14. Imine and Imine-d Radicals Trapped in Argon, Krypton and Xenon Matrices at 4.2 K. M. McCarty, Jr. and G. W. Robinson, *J. Am. Chem. Soc.* **81**, 4472−4476 (1959).
15. Environmental Perturbations on Foreign Atoms and Molecules in Solid Argon, Krypton and Xenon. M. McCarty, Jr. and G. W. Robinson, *Mol. Phys.* **2**, 415−430 (1959).
16. Rotational Fine Structure in the $^3A_2 \leftarrow {}^1A_1$, $\pi^* \leftarrow n$ Transition of Formaldehyde. G. W. Robinson and V. E. DiGiorgio, *J. Chem. Phys.* **31**, 1678−1679 (1959).
17. The Production and Subsequent Photolysis of Transient Products from the Photodecomposition of Diazomethane at 4.2 K. G. W. Robinson and M. McCarty, Jr., *J. Am. Chem. Soc.* **82**, 1859−1864 (1960).
18. Discrete Sites in Liquids. G. W. Robinson, *Mol. Phys.* **3**, 301−303 (1960).
19. Phosphorescence Lifetime of Benzene. An Intermolecular Heavy-Atom Effect, a Deuterium Effect, and a Temperature Effect. M. R. Wright, R. P. Frosch and G. W. Robinson, *J. Chem. Phys.* **33**, 934−935 (1960).
20. Frozen NH and NH_2 Radicals from the Photodecomposition of Hydrazoic Acid. L. F. Keyser and G. W. Robinson, *J. Am. Chem. Soc.* **82**, 5245−5246 (1960).
21. Spectra and Energy Transfer Phenomena in Crystalline Rare Gas Solvents. G. W. Robinson, *J. Mol. Spectry.* **6**, 58−83 (1961). Erratum, *ibid*, p 509.
22. Electronic Excited States of Simple Molecules. G. W. Robinson, in *Symposium on Light and Life*, edited by William D. McElroy and Bentley Glass, The Johns Hopkins Press, 11−30 (1961).
23. Excitation Transfer Splitting in the $n \rightarrow \pi^*$ Transitions of the Diazines. M. A. El-Sayed and G. W. Robinson, *J. Chem. Phys.* **34**, 1840−1842 (1961).
24. Intramolecular Excitation Transfer. The Lowest $n \rightarrow \pi^*$ Transitions in Pyrazine. M. A. El-Sayed and G. W. Robinson, *Mol. Phys.* **4**, 273−285 (1961).
25. Comments on a Communication by El-Sayed and Robinson. M. A. El-Sayed and G. W. Robinson, *J. Chem. Phys.* **35**, 1896−1897 (1961).
26. Book Review of Wave Mechanics and Valency. G. W. Robinson, *J. Am. Chem. Soc.* **83**, 3924−3925 (1961).
27. Electronic Spectra. G. W. Robinson, in *Methods of Experimental Physics*, Academic Press, Vol. III, Chap. 2.4, 155−264 (1962).
28. Retardation of Singlet and Triplet Excitation Migration in Organic Crystals by Isotopic Dilution. M. A. El-Sayed, M. T. Wauk and G. W. Robinson, *Mol. Phys.* **5**, 205−208 (1962).
29. Spectroscopy in Liquid-Rare-Gas Solvents. Infrared Spectra of CH_4 in Argon and of HCl in Xenon. J. Kwok and G. W. Robinson, *J. Chem. Phys.* **36**, 3137−3140 (1962).
30. Theory of Electronic Energy Relaxation in the Solid Phase. R. P. Frosch and G. W. Robinson, *J. Chem. Phys.* **37**, 1962−1973 (1962).
31. Rapid Triplet Excitation Migration in Organic Crystals. G. C. Nieman and G. W. Robinson, *J. Chem. Phys.* **37**, 2150−2151 (1962).
32. Production of Free Radicals and Their Physical Properties in the Liquid and Solid State. G. W. Robinson, *Advances in Chemistry Series*, American Chemical Society, 10−25 (1962).
33. Electronic Excitation Transfer and Relaxation. G. W. Robinson and R. P. Frosch, *J. Chem. Phys.* **38**, 1187−1203 (1963).
34. Triplet−Triplet Annihilation and Delayed Fluorescence in Molecular Aggregates. H. Sternlicht, G. C. Nieman and G. W. Robinson, *J. Chem. Phys.* **38**, 1326−1335 (1963).
35. Dynamic Role of Triplet States in Photosynthesis. G. W. Robinson, *Proc. Natl. Acad. Sci. U.S.A.* **49**, 521−529 (1963).
36. Direct Determination of Exciton Interactions for Triplet States of Organic Crystals. G. C. Nieman and G. W. Robinson, *J. Chem. Phys.* **39**, 1298−1307 (1963).

[†] Part of the special issue "G. Wilse Robinson Festschrift".

* Occasionally Wilse Robinson did not list himself as an author on his publications.

10.1021/jp021479f CCC: $22.00
Published on Web 07/27/2002

37. Errata: Triplet−Triplet Annihilation and Delayed Fluorescence in Molecular Aggregates; and Comments Concerning Ruby-Laser-Induced Fluorescence in Anthracene Crystals. H. Sternlicht, G. C. Nieman and G. W. Robinson, *J. Chem. Phys.* **39**, 1610−1611 (1963).
38. Emission Spectrum of NO in Solid Rare Gases: The Lifetime of the $a\ ^4\Pi \rightarrow X\ ^2\Pi$ and $B\ ^2\Pi \rightarrow X\ ^2\Pi$ Transitions. R. P. Frosch and G. W. Robinson, *J. Chem. Phys.* **41**, 367−374 (1964).
39. Spin Splittings and Rotational Structure of Nonlinear Molecules in Doublet and Triplet Electronic States. W. T. Raynes, *J. Chem. Phys.* **41**, 3020−3032 (1964).
40. Quantum Processes in Photosynthesis. G. W. Robinson, *Ann. Rev. Phys. Chem*. **15**, 311−347 (1964).
41. First and Second Triplets of Solid Benzene. S. D. Colson and E. R. Bernstein, *J. Chem. Phys.* **43**, 2661−2669 (1965).
42. Infrared Spectra and Intensity Enhancements in Solutions of Hydrogen Halides in Liquid Xenon. H. Goldring, J. Kwok and G. W. Robinson, *J. Chem. Phys.* **43**, 3220−3228 (1965).
43. Exciton Structure in Two Triplet States of Crystalline Naphthalene. D. M. Hanson and G. W. Robinson, *J. Chem. Phys.* **43**, 4174−4175 (1965).
44. Rotational Analysis of Some Bands of the Triplet Singlet Transition in Formaldehyde. W. T. Raynes, *J. Chem. Phys.* **44**, 2755−2777 (1966).
45. Infrared Spectra of HCl and DCl in Solid Rare Gases. I. Monomers. L. F. Keyser and G. W. Robinson, *J. Chem. Phys.* **44**, 3225−3239 (1966).
46. Vibrational Exciton Splitting, Fermi Resonance, and Crystal Structure of Methyl Iodide. R. Kopelman, *J. Chem. Phys.* **44**, 3547−3553 (1966).
47. Damping of Molecular Excitons Interacting with Phonons and Impurities in Thin Crystals. A. Haug, *Phys. Rev.* **147**, 612−616 (1966).
48. Infrared Spectra of HCl and DCl in Solid Rare Gases. II. Polymers. L. F. Keyser and G. W. Robinson, *J. Chem. Phys.* **45**, 1694−1702 (1966).
49. Observation of the Second Triplet of Solid Benzene Using NO Perturbation. E. R. Bernstein and S. D. Colson, *J. Chem. Phys.* **45**, 3873 (1966).
50. Absorption Spectra of Strained Benzene Crystals at Low Temperatures. S. D. Colson, *J. Chem. Phys.* **45**, 4746−4747 (1966).
51. Excitation Transfer and Trapping in Photosynthesis, presented at the Brookhaven Symposia in Biology: No. 19. G. W. Robinson, *Energy Conversion by the Photosynthetic Apparatus*, Upton, New York, 16−48 (1966).
52. Intensity Enhancement of Forbidden Electronic Transitions by Weak Intermolecular Interactions. G. W. Robinson, *J. Chem. Phys.* **46**, 572−585 (1967).
53. Geometry of the Lowest Triplet State of Benzene. G. C. Nieman and D. S. Tinti, *J. Chem. Phys.* **46**, 1432−1443 (1967).
54. Green's Function Approach to Electrical Conductivity of an Excess Charge Carrier Interacting with Phonons in Molecular Crystals. A. Haug, *Nuovo Cimento* **48B**, 80−91 (1967).
55. Raman Spectrum of Crystalline Benzene. G. W. Robinson and A. R. Gee, *J. Chem. Phys.* **46**, 4847−4853 (1967).
56. Frenkel Exciton Selection Rules for $k \neq 0$ Transitions in Molecular Crystals. S. D. Colson, R. Kopelman and G. W. Robinson, *J. Chem. Phys.* **47**, 27−30 (1967).
57. Intersystem Crossing in Gaseous Molecules. G. W. Robinson, *J. Chem. Phys.* **47**, 1967−1979 (1967).
58. Radiationless Transition in Gaseous Benzene, from Chap. 4, "Radiationless Transitions". G. W. Robinson, *The Triplet State*, proceedings of an International Symposium held at the American University of Beirut, Lebanon, edited by A. B. Zahlan, Cambridge University Press, London, 213−227 (1967).
59. Interchange Symmetry. *I. Molecules, Crystals and Excitons. R. Kopelman, *J. Chem. Phys.* **47**, 2631−2648 (1967).
60. Benzene Vibrational Exciton Spectrum. R. Kopelman, *J. Chem. Phys.* **47**, 3227−3230, (1967).
61. Erratum: Frenkel Exciton Selection Rules for $k \neq 0$ Transitions. S. D. Colson, R. Kopelman and G. W. Robinson, *J. Chem. Phys.* **47**, 5462 (1967).
62. Absorption and Emission Spectra of OH and OD in Solid Ne. Evidence for Rotation. D. S. Tinti, *J. Chem. Phys.* **48**, 1459−1464 (1968).
63. Direct Observation of the Entire Exciton Band of the First Excited Singlet States of Crystalline Benzene and Naphthalene. S. D. Colson, D. M. Hanson, R. Kopelman and G. W. Robinson, *J. Chem. Phys.* **48**, 2215−2231 (1968).
64. Trap-Trap Triplet Energy Transfer in Isotopic Mixed Benzene Crystals. S. D. Colson and G. W. Robinson, *J. Chem. Phys.* **48**, 2550−2556 (1968).
65. Location of the Fourth, Forbidden Factor Group Component of the $^1B_{2u}$ State of Crystalline Benzene. S. D. Colson, *J. Chem. Phys.* **48**, 3324−3332 (1968).
66. Static Crystal Effects on the Vibronic Structure of the Phosphorescence, Fluorescence and Absorption Spectra of Benzene Isotopic Mixed Crystals. E. R. Bernstein, S. D. Colson, D. S. Tinti and G. W. Robinson, *J. Chem. Phys.* **48**, 4632−4659 (1968).
67. Electronic and Vibrational Exciton Structure in Crystalline Benzene. E. R. Bernstein, S. D. Colson, R. Kopelman and G. W. Robinson, *J. Chem. Phys.* **48**, 5596−5610 (1968).
68. Phosphorescence Spectrum of Pure Crystalline Naphthalene. E. B. Priestley and A. Haug, *J. Chem. Phys.* **49**, 622−629 (1968).
69. Phosphorescence and the True Lifetime of Triplet States in Fluid Solutions. S. C. Tsai and G. W. Robinson, *J. Chem. Phys.* **49**, 3184−3191 (1968).
70. Spectroscopic Evidence for Slow Vibrational and Electronic Relaxation in Solids. The Vegard-Kaplan and Second Positive Systems of N_2 in Solid Rare Gases. D. S. Tinti and G. W. Robinson, *J. Chem. Phys.* **49**, 3229−3245 (1968).
71. Vibrational Exciton Structure in Crystals of Isotopic Benzenes. E. R. Bernstein and G. W. Robinson, *J. Chem. Phys.* **49**, 4962−4972 (1968).
72. Singlet−Triplet Absorption of Crystalline Naphthalene by High-Resolution Photoexcitation Spectroscopy. G. Castro and G. W. Robinson, *J. Chem. Phys.* **50**, 1159−1164 (1969).
73. Molecular Dynamics Studies of the Microscopic Properties of Dense Fluids. P. L. Fehder, *J. Chem. Phys.* **50**, 2617−2629 (1969).
74. Experimental Observation of Factor-Group Splitting in the Benzene $^3B_{1u}$ State. D. M. Burland and G. Castro, *J. Chem. Phys.* **50**, 4107−4108 (1969).

75. Site Effects in Isotopic Mixed Crystals−Site Shift, Site Splitting, Orientational Effect and Intermolecular Fermi Resonance in the Vibrational Spectrum of Benzene. E. R. Bernstein, *J. Chem. Phys.* **50**, 4842−4856 (1969).
76. Information on the Exciton Band Structure of the $^1B_{2u}$ State of Crystalline Naphthalene from the Variation of Energy Denominators Methods. D. M. Hanson, R. Kopelman and G. W. Robinson, *J. Chem. Phys.* **51**, 212−223 (1969).
77. Optical Transitions in $^{13}CC_5H_6 - C_6H_6$ Mixed Crystals in the Region of the Factor Group Components of Crystalline Benzene. D. M. Hanson, *J. Chem. Phys.* **51**, 653−654 (1969).
78. Why is Condensed Oxygen Blue? S. C. Tsai and G. W. Robinson, *J. Chem. Phys.* **51**, 3559−3568 (1969).
79. Calculated Radiationless Transition Rates for Benzene and Deuterobenzene. D. M. Burland and G. W. Robinson, *J. Chem. Phys.* **51**, 4548−4559 (1969).
80. Measurement of Rapid Photoprocesses Using a Modulated cw Laser. A. Haug, B. E. Kohler, E. B. Priestley and G. W. Robinson, *Rev. Sci. Instrum.* **40**, 1439−1444 (1969).
81. Raman Scattering Tensors for Single Crystals of Naphthalene. D. M. Hanson and A. R. Gee, *J. Chem. Phys.* **51**, 5052−5062 (1969).
82. Phosphorescence Spectrum, Vibronic Analysis and Lattice Frequencies of the Naphthalene Molecule in a Deuteronaphthalene Crystal. D. M. Hanson, *J. Chem. Phys.* **51**, 5063−5069 (1969).
83. "Anomalies" in the Radial Distribution Functions for Simple Liquids. P. L. Fehder, *J. Chem. Phys.* **52**, 791−796 (1970).
84. Electronic States of Heavily Doped Molecular Crystals − Naphthalene. I. Theoretical. H.-K. Hong and G. W. Robinson, *J. Chem. Phys.* **52**, 825−848 (1970).
85. Energy States and Intermolecular Interactions in Molecular Aggregates: Resonance Pair Spectra of Crystalline Naphthalene. D. M. Hanson, *J. Chem. Phys.* **52**, 3409−3418 (1970).
86. Experimental Observation of Singlet−Triplet Absorption in Pure Crystalline Benzene. D. M. Burland, G. Castro and G. W. Robinson, *J. Chem. Phys.* **52**, 4100−4108 (1970).
87. The Microscopic Mechanism for Diffusion and the Rates of Diffusion-Controlled Reactions in Simple Liquid Solvents. C. A. Emeis and P. L. Fehder, *J. Am. Chem. Soc.* **92**, 2246−2252 (1970).
88. Calculation of Ground State Vibrational Structure and Phonons of the Isotopic Benzene Crystals. E. R. Bernstein, *J. Chem. Phys.* **52**, 4701−4716 (1970).
89. Is the Breakdown of the Born−Oppenheimer Approximation Responsible for Internal Conversion in Large Molecules? D. M. Burland and G. W. Robinson, *Proc. Natl. Acad. Sci. U.S.A.* **66**, 257 264 (1970).
90. Electronic and Vibrational Excitons in Molecular Crystals. G. W. Robinson, *Ann. Rev. Phys. Chem.* **21**, 429−474 (1970).
91. Computer Simulation of the System N_2 in Fluid Argon − Correlation Functions and Relaxation Times. E. F. O'Brien and G. W. Robinson, *Chem. Phys. Lett.* **8**, 79−81 (1971).
92. The Electronic States of Heavily Doped Molecular Crystals − Naphthalene. II. Experimental. H.-K. Hong and G. W. Robinson, *J. Chem. Phys.* **54**, 1369−1384 (1971).
93. On the Diffusion Coefficient of Triplet Excitons in Anthracene. D. C. Hoesterey and G. W. Robinson, *J. Chem. Phys.* **54**, 1709−1712 (1971).
94. C_2 and C^-_2 Spectra Produced by the X Irradiation of Acetylene in Rare-Gas Matrices. R. P. Frosch, *J. Chem. Phys.* **54**, 2660−2666 (1971).
95. The Microscopic Mechanism for Self-Diffusion and Relative Diffusion in Simple Liquids. R. L. Fehder, C. A. Emeis and R. P. Futrelle, *J. Chem. Phys.* **54**, 4921−4933 (1971).
96. Kinetic and Spectral Resolution of Two Components of Delayed Emission from *Chlorella pyrenoidosa*. C. Bonaventura and M. Kindergan, *Biochim. Biophys. Acta* **234**, 249−265 (1971).
97. Vapor Phase Homogeneous Nucleation and the Thermodynamic Properties of Small Clusters of Argon Atoms. D. J. McGinty, *J. Chem. Phys.* **55**, 580−588 (1971).
98. Calculation of Spectra and Correlation Functions from Molecular Dynamics Data Using the Fast Fourier Transform. R. P. Futrelle and D. J. McGinty, *Chem. Phys. Lett.* **12**, 285−287 (1971).
99. The Single-Configuration Aproximation in the Calculation of the Thermodynamic Properties of Microcrystalline Clusters. D. J. McGinty, *Chem. Phys. Lett.* **13**, 525−528 (1972).
100. Molecular Constants for the a $^3A_2$ State of Formaldehyde. Results obtained by A. S. Dubin and G. W. Robinson, F. W. Birss, R. Y. Dong and D. A. Ramsay, *Chem. Phys. Lett.* **18**, 11−13 (1973).
101. Solid State Concepts in Radiation Chemistry and Biology. G. W. Robinson, *Computational Methods for Large Molecules and Localized States in Solids*, proceedings of a Symposium held May 15−17, 1972, at the IBM Research Laboratory, San Jose, CA. Edited by F. Herman, A. D. McLean and R. K. Nesbet, Plenum Press: New York, 29−48 (1973).
102. Molecular Dynamics Studies of the Properties of Small Clusters of Argon Atoms. D. J. McGinty, *J. Chem. Phys.* **58**, 4733−4742 (1973).
103. A Profile of Degree Holders in Academic Jobs. G. W. Robinson, *J. Chem. Educ.* **50**, 586−591 (1973).
104. On the Apparent Absence of Triplet−Triplet Absorption in Pure Organic Molecular Crystals. E. B. Priestley and G. W. Robinson, *Mol. Phys.* **26**, 159−167 (1973).
105. Radiationless Transitions: Their Effect on Absorption Line Shapes and Fluorescence Decay Curves. C. A. Langhoff and G. W. Robinson, *Mol. Phys.* **26**, 249−266 (1973).
106. Computer Simulation of A Diatomic Molecule Dissolved in a Monatomic Fluid−Correlation Functions, Band Shapes and Relaxation Times. E. F. O'Brien, *Mol. Phys.* **26**, 453−472 (1973).
107. Molecular Electronic Radiationless Transitions. G. W. Robinson, in *Excited States*, edited by E. C. Lim, Academic Press: New York, Vol. I, 1−34 (1974).
108. A Search for OD in the Galactic Center. M. Allen, D. A. Cesarshy and R. M. Crutcher, *Astrophys. J.* **188**, 33−34 (1974).
109. The Lowest Singlet and Triplet Excited States of Pyrazine. H.-K. Hong and G. W. Robinson, *J. Mol. Spectrosc.* **52**, 1−20 (1974).
110. Theory of Radiationless Transitions in Polyatomic Molecules. The Intermediate Case. G. W. Robinson and C. A. Langhoff, *Chem. Phys.* **5**, 1−14 (1974).

111. Role of Ions in Vapor Phase Nucleation. E. F. O'Brien and G. W. Robinson, *J. Chem. Phys.* **61**, 1050−1055 (1974).

112. Dominance of Methyl Groups in Picosecond Vibrational Relaxation in Hydrocarbons. P. R. Monson, S. Patumtevapibal, K. J. Kaufmann and G. W. Robinson, *Chem. Phys. Lett.* **28**, 312−315 (1974).

113. Time Decay and Untangling of Vibronically Tangled Resonances: Naphthalene Second Singlet. C. A. Langhoff and G. W. Robinson, *Chem. Phys.* **6**, 34−53 (1974).

114. Theory of Time-Resolved Resonance Scattering. G. W. Robinson, J. O. Berg and C. A. Langhoff, *Chem. Phys. Lett.* **29**, 305−309 (1974).

115. Rhodopsin Cooperativity in Visual Response. G. W. Robinson, *Vision Res.* **15**, 35−48 (1975).

116. Formation of Molecules on Small Interstellar Grains. M. Allen and G. W. Robinson, *Astrophys. J.* **195**, 81−90 (1975).

117. The Level Shift Operator and Its Effect on Line Shapes in Vibronically Perturbed Spectra. C. A. Langhoff and G. W. Robinson, *Mol. Phys.* **29**, 613−622 (1975).

118. An Approach to the Understanding of Radiation Chemistry in the Condensed Phase. J. O. Berg and G. W. Robinson, *Chem. Phys. Lett.* **34**, 211−215 (1975).

119. Line Shape − Lifetime Relationship and Emission and Scattering of Light by Polyatomic Molecules. G. W. Robinson and J. O. Berg, *Can. J. Phys.* **53**, Herzberg Festschrift Edition, 2068−2078 (1975).

120. Molecular Hydrogen in Interstellar Dark Clouds. M. Allen and G. W. Robinson, *Astrophys. J.* **207**, 745−747 (1976).

121. Extraction of Vibronic Information from Tangled Spectra. J. O. Berg, *Chem. Phys. Lett.* **41**, 547−551 (1976).

122. Direct Observation of Rotational Diffusion by Picosecond Spectroscopy. G. R. Fleming, J. M. Morris and G. W. Robinson, *Chem. Phys.* **17**, 91−100 (1976).

123. The Molecular Composition of Dense Interstellar Clouds. M. Allen and G. W. Robinson, *Astrophys. J.* **212**, 396−415 (1977).

124. Picosecond Spectroscopic Studies of Spontaneous and Stimulated Emission in Organic Dye Molecules. G. R. Fleming, A. E. W. Knight, J. M. Morris, R. J. Robbins and G. W. Robinson, *Chem. Phys.* **23**, 61−70 (1977).

125. Picosecond Fluorescence Studies of Xanthene Dyes. G. R. Fleming, A. E. W. Knight, J. M. Morris, R. J. S. Morrison and G. W. Robinson, *J. Am. Chem. Soc.* **99**, 4306−4311 (1977).

126. Properties of Single Picosecond Pulses from Neodymium: Phosphate Glass. G. R. Fleming, I. R. Harrowfield, A. E. W. Knight, J. M. Morris, R. J. Robbins and G. W. Robinson, *Opt. Comm.* **20**, 36−41 (1977).

127. Rotational Diffusion of the Mode-Locking Dye DODCI and Its Photoisomer. G. R. Fleming, A. E. W. Knight, J. M. Morris, R. J. Robbins and G. W. Robinson, *Chem. Phys. Lett.* **49**, 1−7 (1977).

128. Picosecond Fluorescence Spectroscopy Using a Streak Camera. G. R. Fleming, J. M. Morris and G. W. Robinson, *Austr. J. Chem.* **30**, 2337−2352 (1977).

129. Exciton Fission and Annihilation in Crystalline Tetracene. G. R. Fleming, D. P. Millar, G. C. Morris, J. M. Morris and G. W. Robinson, *Austr. J. Chem.* **30**, 2353−2359 (1977).

130. Slip Boundary Conditions for Molecular Rotation: Time Dependent Fluorescence Depolarization Studies of BBOT. G. R. Fleming, A. E. W. Knight, J. M. Morris, R. J. Robbins and G. W. Robinson, *Chem. Phys. Lett.* **51**, 399−402 (1977).

131. Resonant and Near-Resonant Rayleigh and Raman Scattering for a Diatomic Molecules. J. O. Berg and G. W. Robinson, *Isr. J. Chem.* **16**, 235−240 (1977).

132. Picosecond Emission Spectroscopy. G. W. Robinson, J. M. Morris, R. J. Robbins and G. R. Fleming, Advances in Laser Spectroscopy I, *Proc. Soc. Photo. Opt. Engrs.* **113**, 13−24 (1977).

133. Picosecond Fluorescence Studies of Rotational Diffusion. G. R. Fleming, A. E. W. Knight, J. M. Morris, R. J. Robbins and G. W. Robinson, *Lasers Chem. Proc. Conf.*, 316−321 (1977).

134. Fluorescence and Competing Events on the Picosecond Time Scale. G. W. Robinson, J. M. Morris, R. J. Robbins and G. R. Fleming, Presented at XIII European Conference on Molecular Spectroscopy, Worclaw, Poland, Sept. 12−16, 1977. *J. Mol. Struct.* **47**, 221−235 (1978).

135. Picosecond Studies of the Fluorescence Probe Molecule 8-Anilino-1-naphthalenesulfonic Acid. R. J. Robbins, G. R. Fleming, J. M. Morris, A. E. W. Knight, R. J. S. Morrison and G. W. Robinson, *J. Am. Chem. Soc.* **100**, 7145−7150 (1978).

136. Nonexponential Fluorescence Decay of Aqueous Tryptophan and Two Related Peptides by Picosecond Spectroscopy. G. R. Fleming, J. M. Morris, R. J. Robbins, G. J. Woolfe, P. J. Thistlethwaite and G. W. Robinson, *Proc. Nat. Acad. Sci. U.S.A.* **75**, 4652−4656 (1978).

137. Picosecond Emission Spectroscopy with an Ultraviolet Sensitive Streak Camera. G. W. Robinson, T. A. Caughey and R. A. Auerbach, in *Advances in Laser Chemistry*, edited by A. H. Zewail, Springer Series in Chemical Physics, Springer: Berlin, 108−125 (1978).

138. Coupling an Ultraviolet Spectrograph to a SC/OMA for Three-Dimensional (l,I,t) Picosecond Fluorescence Measurements. G. W. Robinson, T. A. Caughey, R. A. Auerbach and P. J. Harmon, in *Multichannel Image Detectors*, edited by Y. Talmi, ACS Symposium Series #102, American Chemical Society, Washington, 199−213 (1979).

139. Photophysics of Aqueous Tryptophan: pH and Temperature Effects. R. J. Robbins, G. R. Fleming, G. S. Beddard, G. W. Robinson, P. J. Thistlethwaite and G. J. Woolfe, *J. Am. Chem. Soc.* **102**, 6271−6279 (1980).

140. Diffusion Modulated Donor−Acceptor Energy Transfer in a Disordered System. R. A. Auerbach, G. W. Robinson and R. W. Zwanzig, *J. Chem. Phys.* **72**, 3528−3538 (1980).

141. Primary Processes of Photobiological Receptors. P. S. Song, E. B. Walker, J. Jung, R. A. Auerbach, G. W. Robinson and B. Prezelin, in *New Horizons in Biological Chemistry*, edited by M. Koike et al., Academic Press Center: Tokyo, 79−93 (1980).

142. Theoretical Absolute Raman Cross Sections in Benzene. Totally Symmetric Modes. G. W. Robinson and R. A. Auerbach, *Chem. Phys. Lett.* **74**, 237−242 (1980).

143. Surface Enhanced Raman Effect. G. W. Robinson, *Chem. Phys. Lett.* **76**, 191−195 (1980).

144. Emission Risetimes in Picosecond Spectroscopy. G. W. Robinson and R. A. Auerbach, in *Picosecond Phenomena II*, edited by R. M. Hochstrasser, W. Kaiser and C. V. Shank, Springer-Verlag: Berlin, 156−162 (1980).

145. Dynamical Evidence for Preferential Structure in Electron Photoejection. R. A. Auerbach, J. A. Synowiec and G. W. Robinson, in *Picosecond Phenomena II*, edited by R. M. Hochstrasser, W. Kaiser and C. V. Shank, Springer-Verlag: Berlin, 215−219 (1980).

146. The Origin of Off-Resonance Raman Intensity. G. W. Robinson and R. A. Auerbach, *J. Chem. Phys.* **74**, 2083−2090 (1980).

147. SERS: A New Method for the Study of Electronic Structure in Ultrasmall Particles. G. W. Robinson, *Chem. Phys. Lett.* **80**, 404−408 (1981).

148. Picosecond Molecular Processes. G. W. Robinson, *McGraw-Hill Encyclopedia of Science Technology*, McGraw-Hill: New York, 5th Ed. **10**, 298−300 (1982).

149. Proton Release From *Stentor* Photoreceptors in the Excited State. P.-S. Song, E. B. Walker, R. A. Auerbach and G. W. Robinson, *Biophys. J.* **35**, 551−555 (1981).

150. Microdynamics of Chemical Reactions in Solution: Unscrambling Heterogeneities in a Contra-Diffusion-Controlled Limit. G. W. Robinson, R. A. Auerbach and J. A. Synowiec, *Chem. Phys. Lett.* **82**, 219−224 (1981).

151. Picosecond Reaction Dynamics in Solution. Illusion or Reality? G. W. Robinson and R. A. Moore, *Proc. Soc. Photo-Opt. Instr. Engrs.* **332**, 224−229 (1982).

152. Question of Gauge for the Description of Two-Photon Transitions or Light Scattering When Using Incomplete Sets. G. W. Robinson, *Phys. Rev. A* **26**, 1482−1489 (1982).

153. Fractional Gauge Transformations of the First Kind: Optimization of Cross-Section Calculations. C. W. Brown and G. W. Robinson, *J. Chem. Phys.* **80**, 1579−1586 (1984). [Erratum: *J. Chem. Phys.* **81**, 3363 (1984)].

154. A Generalized Franck−Condon Principle for Vibronic Bands of Diatomic Molecules. C. W. Brown, *J. Chem. Phys.* **77**, 5379−5385 (1982).

155. Intermediate Gauge Formulation of Two-Photon Spectroscopies. G. W. Robinson and C. W. Brown, in *Time Resolved Vibrational Spectroscopy*, edited by George H. Atkinson, Academic Press: New York, 11−21 (1983).

156. Chemical Reactions in Solution: The New Photochemistry. G. W. Robinson and W. A. Jalenak, *Laser Chemistry* **3**, 163−180 (1983). *Photochemistry and Photobiology* Vol. 1, edited by A. H. Zewail, Harwood Academic Publishers: London, 547−564 (1984).

157. The Hidden History of Radiationless Transitions Theory. G. W. Robinson, Not for Publication.

158. Theory of Enhanced Second-Harmonic Generation from Randomly Rough Metal Surfaces. K. Arya, *Phys. Rev. B* **29**, 4451−4458 (1984).

159. Indole: A Model System for One-Photon Threshold Photoionization in Polar Media. J. Lee and G. W. Robinson, *J. Chem. Phys.* **81**, 1203−1208 (1984).

160. Chemical Reactions in Condensed Media. D. Statman, W. A. Jalenak and G. W. Robinson, in *Ultrafast Phenomena IV*, edited by D. H. Auston and K. B. Eisenthal, Springer Verlag: Berlin, 320−322 (1984).

161. Threshold Ionization in Liquids. G. W. Robinson, J. Lee and R. A. Moore, in *Ultrafast Phenomena IV*, edited by D. H. Auston and K. B. Eisenthal, Springer-Verlag: Berlin, 313−316 (1984).

162. Does the Kramers Equation Provide Potential Surface Information? G. W. Robinson, W. A. Jalenak and D. Statman, *Chem. Phys. Lett.* **110**, 135−139 (1984).

163. Proposal for an All-Optical Subpicosecond Streak Camera. J. Soto-Manriquez, *Opt. Comm.* **52**, 221−224 (1984).

164. 2-Naphthol: A Simple Example of Proton-Transfer Effected by Water Structure. J. Lee, R. D. Griffin and G. W. Robinson, *J. Chem. Phys.* **82**, 4920−4925 (1985).

165. Solvent Isotope Effect on Electron-Transfer Processes. J. Lee and G. Wilse Robinson, *J. Phys. Chem.* **89**, 1872−1875 (1985).

166. Memory and Entropy in Cis-Trans Isomerization. D. Statman and G. W. Robinson, *J. Chem. Phys.* **83**, 655−659 (1985).

167. Electric Field Enhancement Near a Randomly Rough Metal Surface. The Effect of A Dielectric Overlayer. K. Arya, *Phys. Rev. B* **30**, 7242−7249 (1984).

168. Hydration Dynamics of Electrons from a Fluorescent Probe Molecule. R. A. Moore, J. Lee and G. W. Robinson, *J. Phys. Chem.* **89**, 3648−3654 (1985).

169. Electron Hydration Dynamics Using the 2-Anilinonaphthalene Precursor. J. Lee and G. W. Robinson, *J. Am. Chem. Soc.* **107**, 6153−6156 (1985).

170. Two-Photon Transitions in Positronium. G. W. Robinson and A. Quattropani, *Int. Rev. Phys. Chem.* **5**, 307−314 (1986).

171. A Dynamical Model for Liquid Water. G. W. Robinson, J. Lee, K. G. Casey and D. Statman, *Chem. Phys. Lett.* **123**, 483−488 (1986).

172. Molecular Aspects of Ionic Hydration Reactions. G. W. Robinson, P. J. Thistlethwaite and J. Lee, *J. Phys. Chem.* **90**, 4224−4233 (1986).

173. Hydration Dynamics of Protons from Photon Initiated Acids. J. Lee, G. W. Robinson, S. P. Webb, L. A. Philips and J. H. Clark, *J. Am. Chem. Soc.* **108**, 6538−6542 (1986).

174. What is Liquid Water? G. W. Robinson, J. Lee and M.-P. Bassez, *J. Chem. Soc., Faraday Trans. 2* **82**, 2351−2359 (1986).

175. Temperature Dependence of Proton Recombination and Proton Induced Quenching for 2 naphtholate. J. Lee, G. W. Robinson and M.-P. Bassez, *J. Am. Chem. Soc.* **108**, 7477−7480 (1986).

176. The Hydrated Electron−Jekyll and Hyde in a Test Tube. G. W. Robinson and H. F. Hameka, *Proc. Soc. Photo-Opt. Instr. Engrs.* **742**, 82−86 (1987).

177. Structure of the Hydrated Electron. H. F. Hameka, G. W. Robinson and C. J. Marsden, *J. Phys. Chem.* **91**, 3150−3157 (1987).

178. Purification and Spectroscopic Properties of 124-Kilodalton Oat Phytochrome. Y. G. Chai, B. R. Singh, P.-S. Song, J. Lee and G. W. Robinson, *Anal. Biochem.* **163**, 322−330 (1987).

179. Cooperativity in Liquid Water. G. W. Robinson, J. Lee and M.-P. Bassez, *Chem. Phys. Lett.* **137**, 376−380 (1987).

180. An Extended Kramers Equation for Photoisomerization. J. Lee, S.-B. Zhu and G. W. Robinson, *J. Phys. Chem.* **91**, 4273−4277 (1987).

181. Is Liquid Water Really Anomalous? M.-P. Bassez, J. Lee and G. W. Robinson, *J. Phys. Chem.* **91**, 5818−5825 (1987).
182. Computer Experiments on Cis-Trans Isomerization. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Phys. Chem.* **92**, 2401−2407 (1988).
183. Molecular Level Laser Studies of Condensed Phase Chemistry. J. Lee, S.-B. Zhu and G. W. Robinson, *Proc. Soc. Photo-Opt. Instr. Engrs.* **910**, 136−143 (1988).
184. Entropy Effects in Liquid-Phase Isomerizations. S.-B. Zhu and G. W. Robinson, *Proc. 3rd Int. Conf. Supercomputing*, Vol. I, 300−303 (1988).
185. Memory Kernel in Liquid Phase Cis-Trans Isomerizations. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Chem. Phys.* **88**, 7088−7096 (1988).
186. Finite-Size Scaling of O(n) Models in Higher Dimensions. S. Singh and R. K. Pathria, *Phys. Rev. B* **38**, 2740−2748 (1988).
187. Molecular Dynamics Simulation of Liquid Carbon Disulphide with a Harmonic Intramolecular Potential. S.-B. Zhu, J. Lee and G. W. Robinson, *Mol. Phys.* **65**, 65−75 (1988).
188. Enhancement of Hydrogen Bonding in Vicinal Water: Heat Capacity of Water and Deuterium Oxide in Silica Pores. F. M. Etzler, *Langmuir* **4**, 878−883 (1988).
189. A Microscopic Form of the Extended Kramers Equation. A Simple Friction Model for Cis-Trans Isomerization Reactions. S.-B. Zhu, J. Lee, G. W. Robinson and S. H. Lin, *Chem. Phys. Lett.* **148**, 164−168 (1988).
190. Time-Resolved Studies of "Salt Effects" on Weak Acid Dissociation. J. Lee, *J. Am. Chem. Soc.* **111**, 427−431 (1989).
191. Reply to the Comment "Aquated Electrons, H_2O^- Anions, and OH^-/H_3O Units". F. Muguet, M.-P. Bassez and G. W. Robinson, *J. Phys. Chem.* **92**, 7262−7263 (1988).
192. A Photoreversible Conformational Change in 124 KDA Avena Phytochrome. B. R. Singh, Y. G. Chai, P.-S. Song, J. Lee and G. W. Robinson, *Biochim. Biophys. Acta* **936**, 395−405 (1988).
193. Molecular-Dynamics Study of Nonpolar Molecular Liquids in Intense Laser Fields. S.-B. Zhu, J. Lee and G. W. Robinson, *Phys. Rev. A* **38**, 5810−5816 (1988).
194. Ultrafast Dynamics of a Quasi-dissociative Diatomic Molecule in Solution. S.-B. Zhu and G. W. Robinson, *J. Phys. Chem.* **93**, 164−170 (1989).
195. Theoretical Study of Memory Kernel and Velocity Correlation Function for Condensed Phase Isomerization. I. Memory Kernel. S.-B. Zhu, J. Lee, G. W. Robinson and S. H. Lin, *J. Chem. Phys.* **90**, 6335−6339 (1989).
196. Theoretical Study of Memory Kernel and Velocity Correlation Function for Condensed Phase Isomerization. II. Velocity Correlation Function, Barrier Crossing Rates and Generalized Smoluchowski Equation. S.-B. Zhu, J. Lee, G. W. Robinson and S. H. Lin, *J. Chem. Phys.* **90**, 6340−6346 (1989).
197. Possible Breakdown of Reaction Coordinate Concept in Condensed Phase Chemistry. S.-B. Zhu and G. W. Robinson, *Chem. Phys. Lett.* **153**, 539−545 (1988).
198. Effects of An Intense Picosecond Laser on Liquid Carbon Disulphide. A Molecular Dynamics Study. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Am. Opt. Soc. B* **6**, 250−256 (1989).
199. Molecular Dynamics Study of Liquid Carbon Dioxide. S.-B. Zhu and G. W. Robinson, *Comp. Phys. Comm.* **52**, 317−321 (1989).
200. Molecular Dynamics Simulation on Liquid Water with Non-Pair-Additive Interactions, S.-B. Zhu and G. W. Robinson, *Proc. 4th Int. Conf. Supercomputing*, Vol. II, edited by L. P. Kartashev and S. I. Kartashev, 189−197 (1989).
201. Structure and Properties of Liquid Carbon Disulphide Near Extended Surfaces. S.-B. Zhu, J. Lee and G. W. Robinson, *Mol. Phys.* **67**, 321−333 (1989).
202. Analytical Evaluation of a Class of Lattice Sums in Arbitrary Dimensions. S. Singh and R. K. Pathria, *J. Phys. A* **22**, 1883−1887 (1989).
203. Lennard-Jones Fluid Between Adiabatically Moved Interacting Walls. S.-B. Zhu and G. W. Robinson, *Chem. Phys.* **134**, 1−5 (1989).
204. Microscopic Friction in Ultrafast Dynamical Processes. S.-B. Zhu, J. Lee and G. W. Robinson, *Phys. Rev. A* **39**, 5985−5988 (1989).
205. Polar Molecule in A Nonpolar Liquid. A Molecular Dynamics Study. S.-B. Zhu and G. W. Robinson, *J. Chem. Phys.* **90**, 7127−7131 (1989).
206. Breakdown of the Brownian Motion Model in Ultrafast Dynamics. S.-B. Zhu, S. Singh and G. W. Robinson, *Phys. Rev. A* **40**, 1109−1115 (1989).
207. Finite-size Scaling of O(n) Models with Long-Range Interactions. S. Singh and R. K. Pathria, *Phys. Rev. B* **40**, 9238−9248 (1989).
208. Kinetic Energy Imbalance in Inhomogeneous Materials. S.-B. Zhu, J. Lee and G. W. Robinson, *Chem. Phys. Lett.* **161**, 249−252 (1989).
209. Chemically Stiff Water: Ions, Surfaces, Pores, Bubbles and Biology, T. G. Fillingim, S.-B. Zhu, S. Yao, J. Lee and G. W. Robinson, *Chem. Phys. Lett.* **161**, 444−448 (1989).
210. Competitive Ionic Hydration Involving Outer-Shell Solvent: Temperature Dependence. J. Lee, *J. Phys. Chem.* **94**, 258−262 (1990).
211. Ultrafast Molecular Processes. G. W. Robinson and N. Luo, *McGraw-Hill Encyclopedia of Science & Technology*, (1990), apparently not published.
212. Ab Initio Computations of One and Two Hydrogen or Deuterium Atoms in the Palladium Tetrahedral Site. F. F. Muguet and P. M.-P. Bassez-Muguet, *J. Fusion Energy* **9**, 383−389 (1990).
213. Non-Maxwell Velocity Distributions in Inhomogeneous Materials. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Fusion Energy* **9**, 465−467 (1990).
214. Non-Maxwell Velocity Distributions in Equilibrated Fluids. S.-B. Zhu, J. Lee and G. W. Robinson, *Chem. Phys. Lett.* **163**, 328−332 (1989).
215. Solvent Structural Effects on Proton Dissociation. R. Krishnan, T. G. Fillingim, J. Lee and G. W. Robinson, *J. Am. Chem. Soc.* **112**, 1353−1357 (1990).
216. Structure and Properties of Liquid Carbon Disulphide Between Charged Plates. S.-B. Zhu, J.-B. Zhu and G. W. Robinson, *Mol. Phys.* **68**, 1321−1333 (1990).
217. Dynamical Effects of Ions on a Polar Solvent. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Phys. Chem.* **94**, 2113−2116 (1990).
218. Aspects of Modern Condensed Phase Chemistry. G. W. Robinson, S. Singh, R. Krishnan, S.-B. Zhu and J. Lee, *J. Phys. Chem.* **94**, 4−6 (1990).

219. Nonlinear Effects on Thermonuclear Reaction Rates. S.-B. Zhu, J. Lee and G. W. Robinson, *Phys. Lett. A* **144**, 361−364 (1990).
220. Nonequilibrium Computer Simulation of a Salt Solution. S.-B. Zhu, J. Lee, J.-B. Zhu and G. W. Robinson, *J. Chem. Phys.* **92**, 5491−5498 (1990).
221. Water Structure Affected by a Weak Base. S. Yao, J. Lee and G. W. Robinson, *J. Am. Chem. Soc.* **112**, 5698−5700 (1990).
222. Isotope Effect on Weak Acid Dissociation. R. Krishnan, J. Lee and G. W. Robinson, *J. Phys. Chem.* **94**, 6365−6367 (1990).
223. Non-Maxwell Velocity Distributions in Equilibrated Fluids. II. S.-B. Zhu, J. Lee and G. W. Robinson, *Chem. Phys. Lett.* **169**, 355−361 (1990).
224. Fast and Slow Dynamic Probes for Solvent Structural Investigations. T. Fillingim, N. Luo, J. Lee and G. W. Robinson, *J. Phys. Chem.* **94**, 6368−6371 (1990).
225. Non-Maxwell Distributions in Equilibrated Fluids. III. S.-B. Zhu and G. W. Robinson, *Chem. Phys. Lett.* **170**, 368−372 (1990).
226. The Intermolecular Vibrations of the Bifurcated Water Dimer: An Ab Initio Study. F. Muguet, G. W. Robinson and M.-P. Bassez-Muguet, *Int. J. Quantum Chem.* **39**, 449−454, (1991).
227. Flexible Simple Point Charge Water in a Self-Supporting Thin Film. S.-B. Zhu, T. G. Fillingim and G. W. Robinson, *J. Phys. Chem.* **95**, 1002−1006 (1991).
228. Velocity Distributions in Nonlinear Systems. S.-B. Zhu, *Phys. Rev. A* **42**, 3374−3381 (1990).
229. Finite-size Scaling in Arbitrary Dimensions. S. Singh and R. K. Pathria, *J. Phys. A: Math. Gen.* **23**, 4619−4626 (1990).
230. Comments on the Grote−Hynes Theory. S.-B. Zhu, J. Lee and G. W. Robinson, *J. Phys. Chem.* **95**, 1865−1866 (1991).
231. Theory of Activated Rate Processes with Space Dependent Friction. S. Singh, R. Krishnan and G. W. Robinson, *Chem. Phys. Lett.* **175**, 338−342 (1990).
232. A Flexible/Polarizable Simple Point Charge Water Model. S.-B. Zhu, S. Yao, J.-B. Zhu and G. W. Robinson, *J. Phys. Chem.* **95**, 6211−6217 (1991).
233. Structure and Dynamics of Liquid Water Between Plates. S.-B. Zhu and G. W. Robinson, *J. Chem. Phys.* **94**, 1403−1410 (1991).
234. Velocity Dependence of Friction. S.-B. Zhu, J. Lee and G. W. Robinson, *Chem. Phys.* **152**, 221−228 (1991).
235. Ultrafast Dynamics of a Quasi-Dissociative Diatomic Molecule in Solution. II. S.-B. Zhu and G. W. Robinson, *J. Phys. Chem.* **95**, 2967−2970 (1991).
236. Molecular Dynamics Study of an Aqueous LiF Solution. S.-B. Zhu and G. W. Robinson, *Z. Naturforsch. A* **46a**, 221−228 (1990).
237. Molecular Dynamics Study of Thermal Desorption of Xe from Ag(111) Surface. S.-B. Zhu, G. W. Robinson, S. H. Lin, *Surf. Sci.* **279**, 99−104 (1992).
238. A New Flexible/Polarizable Water Model. S.-B. Zhu, S. Singh and G. W. Robinson, *J. Chem. Phys.* **95**, 2791−2799 (1991).
239. Molecular Dynamics Study of Liquid Water in Strong Laser Fields. S.-B. Zhu, J.-B. Zhu and G. W. Robinson, *Phys. Rev. A* **44**, 2602−2608 (1991).
240. Proton Charge-Transfer Involving the Water Solvent. G. W. Robinson, invited paper, *J. Phys. Chem.* Kasha Issue **95**, 10386-10391 (1991).
241. Space-Dependent Friction in the Theory of Activated Rate Processes. S. Singh, R. Krishnan and G. W. Robinson, *Phys. Rev. A* **45**, 5408−5414 (1992).
242. Exact Results for a Finite-Sized Spherical Model of Ferromagnetism at the Borderline Dimensionality 4, S. Singh and R. K. Pathria, *Phys. Rev. B* **45**, 9759−9764 (1992).
243. Critical Phenomena and Scaling Behavior in Theories of Activated Barrier Crossing. S. Singh, R. Krishnan and G. W. Robinson, *Phys. Rev. Lett.* **68**, 2608−2611 (1992).
244. Molecular-Dynamics Computer Simulation of an Aqueous NaCl Solution: Structure. S.-B. Zhu and G. W. Robinson, *J. Chem. Phys.* **97**, 4336−4348 (1992).
245. Space-Dependent Friction in the Theory of Activated Rate Processes: The Hamiltonian Approach. R. Krishnan, S. Singh, and G. W. Robinson, *J. Chem. Phys.* **97**, 5516−5521 (1992).
246. How Do the Properties of Water in Confined Volumes Differ from Those in the Normal Liquid? G. W. Robinson and S.-B. Zhu, *Proceedings of the Twenty-Sixth Jerusalem Symposium on Quantum Chemistry and Biochemistry*, Jerusalem, Israel, May 17−20, 1993, Edited by J. Jortner, R. D. Levine and B. Pullman, Kluwer Academic Publishers, Dordrecht, 1994, pp 423−440.
247. Rate Processes in Dissipative Systems: Scaling in the Canonical Variational Transition State Theory. S. Singh and G. W. Robinson. Invited paper, *Chem. Phys.* **183**, 365−373
248. Ionic Dissociation Dynamics in a Polarizable Liquid. S.-B. Zhu, J.-B. Zhu, J. Lee, G. W. Robinson and S. Singh, *J. Mol. Liq.* **57**, 91−113 (1993).
249. Critical Scaling Behavior in the Activated Barrier Crossing Problem. S. Singh, R. Krishnan and G. W. Robinson, *Phys. Rev. E* **49**, 2540−2548 (1994).
250. Field Perturbed Water. S.-B. Zhu, S. Singh and G. W. Robinson, *Adv. Chem. Phys.* **85**(3), 627−731 (1994).
251. Energetics and Formation of the "Hydrated Electron" within an Itinerant Radical Model. F. F. Muguet and G. W. Robinson, AIP Conference Proceedings 298, *Ultrafast Reaction Dynamics and Solvent Effects*, Royaumont, France, May, 1993, Editors: Yann Gauduel and Peter J. Rossky, AIP Press, New York 1994, pp 158−170.
252. Properties of Liquid Water: Origin of the Density Anomalies. M. Vedamuthu, S. Singh and G. W. Robinson, *J. Phys. Chem.*, Feature Article, **98**, 2222−2230 (1994).
253. Study of the van der Zwan-Hynes Model for Dipole Isomerization Reaction Rates from the Viewpoint of Critical Phenomena. S. Singh and G. W. Robinson, *J. Chem. Phys.* **100**, 6640−6645 (1994).
254. Scaling in a Model of Chemical Reactions with Space-Dependent Friction. S. Singh and G. W. Robinson, *J. Phys. Chem.* **98**, 7300−7306 (1994). NSF, Welch. See also page 7221 of this Raoul Kopelman Festschrift.
255. Accurate Mixture-Model Densities for D_2O. M. Vedamuthu, S. Singh and G. W. Robinson, *J. Phys. Chem.* **98**, 8591−8593 (1994).

256. *Water in Biology, Chemistry and Physics: Experimental Overviews and Computational Methodologies*. G. W. Robinson, S.-B. Zhu, S. Singh and M. W. Evans (World Scientific: Singapore, 1996).

257. Towards a New Correction Method for the Basis Set Superposition Error: Application to the Ammonia Dimer. F. F. Muguet and G. W. Robinson, *J. Chem. Phys.* **102**, 3648−3654 (1995).

258. Evaluation of the Vibration-Rotation-Tunneling Dynamics at the Basis Set Superposition Error Corrected Global Minimum Geometry of the Ammonia Dimer. F. F. Muguet, G. W. Robinson and M. P. Bassez-Muguet, *J. Chem. Phys.* **102**, 3655−3661 (1995).

259. Early Memories of Psychiatric Hospitals in Western Missouri. G. W. Robinson, in *A Brief History of Psychiatry in Western Missouri and of the Western Missouri District Branch of the American Psychiatric Association*, Morton Jacobs, M. D. Ed., published by the Western Missouri Psychiatric Society, Kansas City MO, 1994.

260. Complete Translation of Röntgen's Water Paper, (VIII. Ueber die Constitution des Flüssigen Wassers, W. C. Röntgen, *Ann. D. Phys. u. Chem. N. F.* **XLV**, 91−97, 1891) D. E. Luke and G. W. Robinson, Texas Tech University (1993).

261. A Study of the Quantum Activated Barrier Crossing Problem from the Viewpoint of Critical Phenomena (S. A. Rice Issue) S. Singh and G. W. Robinson, *J. Phys. Chem.* **99**, 2764−2769 (1995).

262. Study of the Reaction Rate, in the Critical Regime, of a Solute Embedded in a Lennard-Jones Crystal. G. W. Robinson and S. Singh, Special Issue *J. Chin. Chem. Soc.* **42**, 367−370 (1995).

263. Time- and Space-Resolved Studies of the Physics and Chemistry of Liquid Water Near a Biologically Relevant Interface. C. H. Cho, M. Chung, J. Lee, T. Nguyen, S. Singh, M. Vedamuthu, S. Yao, J.-B. Zhu, G. W. Robinson, *J. Phys. Chem.* **99**, 7806−7812 (1995).

264. Properties of Liquid Water 4. The Isothermal Compressibility Minimum Near 50°C. M. Vedamuthu, S. Singh and G. W. Robinson, *J. Phys. Chem.* **99**, 9263−9267 (1995).

265. An Analytical study of the Berezhkovskii-Pollak-Zitserman theory of Rate Processes in the Memory-suppression Region, S. Singh and G. W. Robinson, *Chem. Phys.* Special Issue, **198**, 257−268 (1995).

266. Critical scaling behavior in the activated barrier crossing problem. II. Power-law potential, S. Singh and G. W. Robinson, *J. Chem. Phys.* **103**, 4920−4922 (1995).

267. Simple Relationship Between the Properties of Isotopic Water. M. Vedamuthu, S. Singh and G. W. Robinson, *J. Phys. Chem.* **100**, 3825−3827 (1996).

268. Universality in Isomerization Reactions in Polar Solvents. M. Vedamuthu, S. Singh, Y. Onganer, D. R. Bessire, M. Yin, E. L. Quitevis and G. W. Robinson, invited paper, *J. Phys. Chem.* Hochstrasser Issue **100**, 11907−11913 (1996).

269. An Explanation of the Density Maximum in Water. C. H. Cho, S. Singh and G. W. Robinson, *Phys. Rev. Lett.* **76**, 1651−1654 (1996).

270. Liquid Water and Biological Systems: The Most Important Problem in Science that Hardly Anyone Wants to See Solved. C. H. Cho, S. Singh and G. W. Robinson, in *The Royal Society of Chemistry Faraday Division General Discussion No. 103*, "Hydration Processes in Biological and Macromolecular Systems", Sheffield, England, April 1−3, 1996, pp 19−27.

271. The Great Mysteries of Water. G. W. Robinson. See the review by Phillip F. Schewe and Ben Stein in The American Institute of Physics News Update on the WWW, Number 259, February 21, 1996, and short accounts in *New Scientist*, March 2, 1996 (**149**, 16, 1996), *Physics Today*, April 1996.

272. An Analytical Study of the BPZ Theory of Rate Processes in the Critical Region. II. The Critical Coupling Plane. S. Singh and G. W. Robinson, *Chem. Phys.* Special Issue **212**, 125−135 (1996).

273. Reply to the Comment of Velasco et al. on "An Explanation of the Density Maximum in Water", C. H. Cho, S. Singh and G. W. Robinson, *Phys. Rev. Lett.* **79**, 180 (1997).

274. Letter to the Editor. NSF Review Process Should be Revamped, not Taken for Granted. G. W. Robinson, *Physics Today*, August, 1997, p 82.

275. Understanding All of Water's Anomalies With a Non-Local Potential. C. H. Cho, S. Singh and G. W. Robinson, *J. Chem. Phys.* **107**, 7979−7988 (1997).

276. Water Anomalies and the Double Well Takahashi Model. C. H. Cho, S. Singh and G. W. Robinson, *Chem. Phys.* **232**, 329−341 (1998).

277. An Ab Initio UHF Study of the Equilibrium and Dissociation Saddle Point Geometries of the Hydronium Radical. F. F. Muguet, M. P. Bassez and G. W. Robinson, Third Electronic Computational Chemistry Conference. *Internet Journal of Chemistry*, May 8, 1998.

278. Letter to Editor. Narrowness in Science. G. W. Robinson, *Nature* **389**, 538−539 (1997).

279. Water. G. Wilse. Robinson. *Science Corner* in *Lubbock Magazine* #4 vol. 10, 70−73, October 1998.

280. Explicit Outer Bonding Transformations in Liquid Water. The Key to Its Understanding. J. Urquidi, G. W. Robinson, C. H. Cho, S. Singh, B. Xiao. ECCC-5 (Fifth Electronic Computational Chemistry Conference) Internet Conference, November 2−30, 1998, http://www.phys.ttu.edu/~dujcb/ECCC5.

281. Temperature and Pressure Effects on the Structure of Liquid Water. J. Urquidi, C. H. Cho, S. Singh, G. Wilse Robinson. *J. Mol. Struct.* Bartell Special Issue, invited paper, **485**−**486**, 363−371 (1999).

282. Thermal Offset Viscosities of Liquid H_2O, D_2O, and T_2O. C. H. Cho, J. Urquidi, S. Singh, G. Wilse Robinson. *J. Phys. Chem.* **103**, 1991−1994 (1999).

283. Isosbestic Points in Liquid Water. Further Strong Evidence for the Two-State Mixture Model. G. Wilse Robinson, C. H. Cho, J. Urquidi. *J. Chem. Phys.*, **111** 698−702 (1999).

284. Origin of Temperature and Pressure Effects on the Radial Distribution Function of Water. J. Urquidi, C. H. Cho, S. Singh, and G. W. Robinson. *Phys. Rev. Lett.* **83**, 2348−2350 (1999).

285. Role of Hydration Water in Protein Unfolding. G. Wilse Robinson and C. H. Cho. *Biophys. J.* **77**, 3311−3318 (1999).

286. Molecular-Level Description of Temperature and Pressure Effects on the Viscosity of Water. C. H. Cho, J. Urquidi, and G. Wilse Robinson. *J. Chem. Phys.*, **111**, 10171−10176 (1999).

287. Refractive Index Mysteries of Water. G. Wilse Robinson, Chul Hee Cho, and Gregory I. Gellene, *J. Phys. Chem. B* **104**, 7179−7182 (2000).
288. Mixture Model Description of the T, P-Dependence of the Refractive Index of Water. C. H. Cho, J. Urquidi, Gregory I. Gellene and G. Wilse Robinson, *J. Chem. Phys.* **114**, 3157−3162 (2001).
289. Protein Denaturation Described by a Two-State Structural Model of Liquid Water, G. Wilse Robinson, Jacob Urquidi, Surjit Singh and Chul Hee Cho, *Cell. and Molec. Biol., Water in the Cell Special Issue*, **47**, 757−766 (2001).
290. Response to Comment on "Mixture Model Description of the T, P-Dependence of the Refractive Index of Water". C. H. Cho, J. Urquidi, and Gregory I. Gellene, *J. Chem. Phys.* **115**, 7796−7797 (2001).