

## Bruce A. Kowert, PhD

### Publications since 1992:

1. B. A. Kowert, \*\*G. K. Broeker, \*\*S. J. Gentemann, and \*\*M. J. Fehr, "Investigation of the Reorientational Dynamics of the Bis(maleonitriledithiolato)nickel Anion Radical Using Electron Spin Resonance Lineshapes", *J. Magnetic Resonance*, 98, **1992** 362-380.
2. B. A. Kowert and \*W. I. Mariencheck, "Electron Spin Resonance Studies of a Molecular Screw-Propeller", *J. Phys. Chem.*, 97, **1993**, 11639-11642.
3. B. A. Kowert, "The Allowed Values of Ratios of the Rotational Diffusion Constants for a Radical with Four Equivalent  $I = 1/2$  Nuclei", *J. Phys. Chem.*, 100, **1996**, 16373-16377.
4. B. A. Kowert, \*E. J. Higgins, \*W. I. Mariencheck, \*T. L. Stemmler, and \*V. Kantorovich, "Electron Spin Resonance Studies of Reorientational Motion in Glass-forming Liquids", *J. Phys. Chem.*, 100, **1996**, 11211-11217.
5. B. A. Kowert, \*\*T. L. Stemmler, \*\*M. J. Fehr, \*P. J. Sheaff, \*T. J. Gillum, \*N. C. Dang, \*A. M. Hughes, \*B. A. Staggemeier, and \*D. V. Zavich, "Studies of the Translational and Reorientational Motions of Planar Nickel Complex Ions", *J. Phys. Chem. B*, 101, **1997**, 8662-8666.
6. B. A. Kowert and \*\*N. C. Dang, "Diffusion of Dioxygen in *n*-Alkanes", *J. Phys. Chem.*, 103, **1999**, 779-781.
7. B. A. Kowert, \*A. M. Hughes, \*N. C. Dang, \*\*M. B. Martin, \*G. H. Cheung, \*H. D. Tran, and \*J. P. Reed, "Translational Diffusion of Transition Metal Complexes, *Chemical Physics*, 247, **1999**, 435-443.
8. B. A. Kowert, \*\*N. C. Dang, \*J. P. Reed, \*K. T. Sobush, and \*L. G. Seele III, "Diffusion of Dioxygen in Alkanes and Cycloalkanes", *J. Phys. Chem. A*, 104, **2000**, 8823-8828.
9. B. A. Kowert, \*\*N. C. Dang, \*K. T. Sobush, and \*L. G. Seele III, "Diffusion of Aromatic Hydrocarbons in *n*-Alkanes and Cyclohexanes", *J. Phys. Chem. A*, 105, **2001**, 1232-1237.
10. B. A. Kowert, K. T. Sobush, \*\*N. C. Dang, \*L. G. Seele III, \*C. F. Fuqua, and \*C. L. Mapes, "Diffusion of Dioxygen in 1-Alkenes and Biphenyl in Perfluoro-*n*-alkanes," *Chem. Phys. Letters*, 353, **2002**, 95-99 .

11. B. A. Kowert, \*\*N. C. Dang, \*K. T. Sobush, and \*L. G. Seele III, "Diffusion of Buckminsterfullerene in *n*-Alkanes," *J. Phys. Chem. A*, 107, **2003**, 1253-1257.
12. B. A. Kowert, \*K. T. Sobush, \*C. F. Fuqua, \*C. L. Mapes, \*J. B. Jones, and \*J. A. Zahm, "Size-Dependent Diffusion in the *n*-Alkanes," *J. Phys. Chem. A*, 107, **2003**, 4790-4795.
13. B. A. Kowert, \*J. B. Jones, \*J. A. Zahm, and \*R. M. Turner II, "Size-Dependent Diffusion in Cycloalkanes," *Molecular Physics*, 102, **2004**, 1489-1497.
14. B. A. Kowert, \*\*G. K. Broeker, \*\*S. J. Gentemann, \*\*\*T. L. Stemmler, \*\*M. J. Fehr, \*A. J. Stemmler, \*E. M. Thurman-Keup, \*P. W. McCoo, \*T. B. Everett, \*D. J. Lupo, \*P. K. Fitzsimmons, and \*A. Barros Cordero, "Molecular Motion of a Nickel-bis(dithiolato) Complex in Solution," *J. Phys. Chem. B*, 111, **2007**, 13404-13409.
15. B. A. Kowert, \*R. M. Turner II, and \*C. V. C. Caldwell, "Diffusion of 1-Alkenes and Cyclohexene in Alkane Solvents," *Chemical Physics*, 344, **2008**, 114-120.
16. B. A. Kowert, \*\*M. J. Fehr, and \*P. J. Sheaff, "Self-Exchange Reaction of  $[\text{Ni}(\text{mnt})_2]^{1-2-}$  in Nonaqueous Solutions," *Inorg. Chem.*, 47, **2008**, 5696-5701.
17. B. A. Kowert, \*E. M. Thurman-Keup, \*A. Joern Stemmler, \*\*T. L. Stemmler, \*\*M. J. Fehr, \*Cassandra V. C. Caldwell, and \*\*Stephen J. Gentemann, "Electron Spin Resonance Studies of the Reorientational Motion of  $\text{Ni}(\text{mnt})_2^-$ ," *J. Phys. Chem. B*, 114, **2010**, 2760-2765.

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