

Bruce A. Kowert, PhD Publications since 1992

* undergraduate student co-author † graduate student co-author

1. B. A. Kowert, G. K. Broeker,† S. J. Gentemann,† and M. J. Fehr† *Journal of Magnetic Resonance* **1992**, *98*, 362-380. "Investigation of the Reorientational Dynamics of the Bis(maleonitriledithiolato)nickel Anion Radical Using Electron Spin Resonance Lineshapes."
2. B. A. Kowert and W. I. Mariencheck* *Journal of Physical Chemistry* **1993**, *97*, 11639-11642. "Electron Spin Resonance Studies of a Molecular Screw-Propeller."
3. B. A. Kowert, E. J. Higgins,* W. I. Mariencheck,* T. L. Stemmler,* and V. Kantorovich* *Journal of Physical Chemistry* **1996**, *100*, 11211-11217. "Electron Spin Resonance Studies of Reorientational Motion in Glass-forming Liquids."
4. B. A. Kowert *Journal of Physical Chemistry* **1996**, *100*, 16373-16377. "The Allowed Values of Ratios of the Rotational Diffusion Constants for a Radical with Four Equivalent $I = 1/2$ Nuclei."
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* *Journal of Physical Chemistry B* **1997**, *101*, 8662-8666. "Studies of the Translational and Reorientational Motions of Planar Nickel Complex Ions."
6. B. A. Kowert and N. C. Dang† *Journal of Physical Chemistry A* **1999**, *103*, 779-781. "Diffusion of Dioxygen in *n*-Alkanes." (Letter)
7. B. A. Kowert, **A. M. Hughes,*** N. C. Dang,* M. B. Martin,† G. H. Cheung,* H. D. Tran,* and J. P. Reed* *Chemical Physics* **1999**, *247*, 435-443. "Translational Diffusion of Transition Metal Complexes."
8. B. A. Kowert, N. C. Dang,† J. P. Reed,* K. T. Sobush,* and L. G. Seele III* *Journal of Physical Chemistry A* **2000**, *104*, 8823-8828. "Diffusion of Dioxygen in Alkanes and Cycloalkanes."
9. B. A. Kowert, N. C. Dang,† K. T. Sobush,* and L. G. Seele III* *Journal of Physical Chemistry A* **2001**, *105*, 1232-1237. "Diffusion of Aromatic Hydrocarbons in *n*-Alkanes and Cyclohexanes."
10. B. A. Kowert, K. T. Sobush,* N. C. Dang,† L. G. Seele III,* C. F. Fuqua,* and C. L. Mapes* *Chemical Physics Letters* **2002**, *353*, 95-99. "Diffusion of Dioxygen in 1-Alkenes and Biphenyl in Perfluoro-*n*-alkanes."
11. B. A. Kowert, N. C. Dang,† K. T. Sobush,* and L. G. Seele III* *Journal of Physical Chemistry A* **2003**, *107*, 1253-1257. "Diffusion of Buckminsterfullerene in *n*-Alkanes."

12. B. A. Kowert, K. T. Sobush,* C. F. Fuqua,* C. L. Mapes,* J. B. Jones,* and J. A. Zahm* *Journal of Physical Chemistry A* **2003**, *107*, 4790-4795. "Size-Dependent Diffusion in the *n*-Alkanes."
13. B. A. Kowert, J. B. Jones,* J. A. Zahm,* and R. M. Turner II* *Molecular Physics* **2004**, *102*, 1489-1497. "Size-Dependent Diffusion in Cycloalkanes."
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* *Journal of Physical Chemistry B* **2007**, *111*, 13404-13409. "Molecular Motion of a Nickel-bis(dithiolato) Complex in Solution."
15. B. A. Kowert, R. M. Turner II,* and C. V. C. Caldwell* *Chemical Physics* **2008**, *344*, 114-120. "Diffusion of 1-Alkenes and Cyclohexene in Alkane Solvents."
16. B. A. Kowert, M. J. Fehr,† and P. J. Sheaff* *Inorganic Chemistry* **2008**, *47*, 5696-5701. "Self-Exchange Reaction of $[\text{Ni}(\text{mnt})_2]^{1-2-}$ in Nonaqueous Solutions."
17. B. A. Kowert, E. M. Thurman-Keup,* A. Joern Stemmler,* T. L. Stemmler,† M. J. Fehr,† Cassondra V. C. Caldwell,* and Stephen J. Gentemann† *Journal of Physical Chemistry B* **2010**, *114*, 2760-2765. "Electron Spin Resonance Studies of the Reorientational Motion of $\text{Ni}(\text{mnt})_2^-$."
18. B. A. Kowert and M. B. Watson* *Journal of Physical Chemistry B* **2011**, *115*, 9687-9694. "Diffusion of Organic Solutes in Squalane."
19. B. A. Kowert, A. B. J. Stemmler,* T. L. Stemmler,† S. J. Gentemann,† M. B. Watson,* and V. S. Goodwill* *Journal of Physical Chemistry B* **2012**, *116*, 7687-7694. "Molecular Motion of the Bis(maleonitriledithiolato)nickel Trianion in Solution."
20. B. A. Kowert, M. B. Watson,* and N. C. Dang *Journal of Physical Chemistry B*, **2014**, *118*, 2157-2163. "Diffusion of Squalene in *n*-Alkanes and Squalane."
21. B. A. Kowert and P. M. Register* *Journal of Physical Chemistry B* **2015**, *119*, 12931-12937. "Diffusion of Benzene and Alkylbenzenes in *n*-Alkanes."
22. C. C. Kirkpatrick, J. N. Truong,* and B. A. Kowert *Journal of Computational Chemistry* **2017**, *38*, 93-100. "d-Electron Count, Ion-pairing, and Diagonal Twist Angles in Metallo-bis(dithiolene) Complexes."
23. B. A. Kowert *Journal of Physical Chemistry B*, **2018**, *122*, 1941-1947. "Diffusion of Benzene and Alkylbenzenes in Nonpolar Solvents."