

## Publications

Lon J. Wilson

167. C. S. Berger, J. Marks, R. D. Bolskar, M. G. Rosenblum, L. J. Wilson "Cell Internalization Studies of Gadofullerene-(ZME-018) Immunoconjugates into A375m Melanoma Cells." *Bioconjugate Chem.* (Submitted).
166. J. S. Ananta, B. Godin, R. Sethi, L. Moriggi, X. Liu, R. E. Serda, R. Krishnamurthy, R. Muthupillai, R. D. Bolskar, L. Helm, M. Ferrari, L. J. Wilson, P. Decuzzi. " Geometrical confinement of gadolinium-based contrast agents in nanoporous particles enhances T1 contrast." *Nat. Nanotechnol.* **2010**, 5, 815-821.
165. L. A. Tran, R. Krishnamurthy, R. Muthupillai, M. G. Cabreira-Hansen, J. T. Willerson, E. C. Perin, L. J. Wilson. "Gadonanotubes as magnetic nanolabels for stem cell detection." *Biomaterials*, **2010**, 31(36), 9482-9491.
164. A. A. Hassan, B. T-Y. Chan, L. A. Tran, K. B. Hartman, J. S. Ananta, Y. Mackeyev, L. Hu, R. G. Pautler, L. J. Wilson, and A. V. Lee, "Serine-Derivatized Gadonanotubes as Magnetic Nanoprobes for Intracellular Labeling," *Contrast Media Mol. Imaging*, **2010**, 5, 34-38.
163. J. Kolosnjaj-Tabi, K. B. Hartman, S. Boudjemaa, J. S. Ananta, G. Morgant, H. Szwarc, L. J. Wilson, F. Moussa "In Vivo Behavior of Large Doses of Ultra-Short and Full-Length Single-Walled Carbon Nanotubes after Oral and Intraperitoneal Administration to Swiss Mice." *ACS Nano*, **2010**, 4: 1481-1492.
162. M. L. Matson and L. J. Wilson. "Nanotechnology and MRI contrast enhancement." *Future Med. Chem.*, 2 (2010): 491-502.
161. M. van der Zande, B. Sitharaman, X. F. Walboomers, L. A. Tran, J. S. Ananta, A. Veltien, L. J. Wilson, J. I. Álava, A. Heerschap, A. G. Mikos, J. A. Jansen. "In Vivo Magnetic Resonance Imaging of the Distribution Pattern of Gadonanotubes Released from a Degrading Poly(Lactic-Co-Glycolic Acid) Scaffold." *Tissue Engineering Part C: Methods*. **2010**, (In press).
160. B. Sitharaman, M. van der Zande, J. S. Ananta, X. Shi, A. Veltien, X. F. Walboomers, L. J. Wilson, A. G. Mikos, A. Heerschap, J. A. Jansen. "Magnetic resonance imaging studies on gadonanotube-reinforced biodegradable polymer nanocomposites." *J. Biomedical Materials Research Part A*. **2010**, 93A(4), 1454–1462.
159. J. Ananta, L. J. Wilson, "Gadonanostructures as Magnetic Resonance Imaging Contrast Agents," invited book chapter in *Chemistry of Nanocarbons*, T. Akasaka, F. Wudl, S. Nagase Eds., John Wiley & Sons, Ltd, Chichester, UK, **2010**, doi: 10.1002/9780470660188.ch11.
158. P. J. J. Alvarez, J. Lee, L. J. Wilson, Y. Mackeyev, "Novel Photocatalytic Fullerenes for Water and Wastewater Treatment and Disinfection," Provisional U. S. Patent Application No. 11321/P189V1, filed June 24, 2009.
157. J. Ananta, M. Matson, A. Tang, T. Mandal, S. Lin, K. Wong, S. Wong, L. J. Wilson, "Single-walled Carbon Nanotube Materials as T<sub>2</sub>-weighted MRI Contrast Agents," *J. Phys. Chem. C.*, **2009**, 113, 19369-19372.
156. J. Lee, Y. Mackeyev, M. Cho, D. Li, J.-H. Kim, L. J. Wilson, and P. J. J. Alvarez, "Photochemical and Antimicrobial Properties of Novel C60 Derivatives in Aqueous Systems," *Environ. Sci. Technol.* **2009**, 43, 6604-6610.

155. Y. Mackeyev, K. B. Hartman, J. S. Ananta, A. Lee, L. J. Wilson, "Catalytic Synthesis of Amino Acid- and Peptide-Derivatized Gadonanotubes," *J. Am. Chem. Soc.* **2009**, *131*, 8342-8343.
154. S. Faridis; D. Mitchell; K. D. B. Smith; J. S. Ananta; L. J. Wilson; R. G. Pautler. "Assessing transneuronal dysfunction utilizing manganese-enhanced MR (MEMRI)." *J. Magn. Res. Med.* **2008**, *60*(1), 169-175.
153. L. J. Wilson, J. M. Ashcroft, M. G. Rosenblum, "Targeted Nanostructures for Cellular Imaging," U. S. Patent Application #12/325849, filed December 1, 2008.
152. L. J. Wilson, K. R. Kissell, K. B. Hartman, "Carbon Nanotube Based Imaging Agents," U. S. Patent Application No. 12/274,174, filed 11/19/2008.
151. L. J. Wilson, J. S. Ananta Narayanan, B. Sitharaman, K. B. Hartman, "Carbon Nanotube Based Magnetic Resonance Imaging Contrast Agents," Provisional Patent Application, Docket No, 002376.1126, filed August 25, 2008.
150. L. J. Wilson, J. Ananta, B. Sitharaman, K. B. Hartman, "Carbon Nanotube Based Radiosensitizers," Provisional Patent Application, 2008.
149. B. Sitharaman, T. Zakharian, A. Saraf, P. Misra, J. Ashcroft, S. Pan, Q. P. Pham, A. G. Mikos, L. J. Wilson and D. A. Engler, "Water-Soluble Fullerene (C60) Derivatives as Non-Viral Gene-Delivery Vectors," *Mol. Pharmaceutics* **2008** *5*, 567-578.
148. X. Shi, B. Sitharaman, Q. P. Pham, P. P. Spicer, J. L. Hudson, L. J. Wilson, J. M. Tour, R. M. Raphael, A. G. Mikos, "In vitro cytotoxicity of single-walled carbon nanotube/biodegradable polymer nanocomposites," *J. Biomed. Mater. Res. Part A* **2008**, *86A*, 813-823.
147. B. Sitharaman, X. Shi, F. Walboomers, H. Liao, V. Cuijpers, L. J. Wilson, A. G. Mikos, and J. A. Jansen, "In Vivo Biocompatibility of Ultra-Short Single Walled Carbon Nanotube/Biodegradable Polymer Nanocomposites for Bone Tissue Engineering," *Bone* **2008**, *43*, 362-370.
146. K. B. Hartman, S. Laus, R. D. Bolskar, R. Muthupillai, L. Helm, E. Toth, A. E. Merbach, and L. J. Wilson, "Gadonanotubes as Ultrasensitive pH-Smart Probes for Magnetic Resonance Imaging," *Nano Lett.* **2008**, *8*, 415-419.
145. K. B. Hartman, L. J. Wilson and M. G. Rosenblum, "Detecting and Treating Cancer with Nanotechnology," *Mol. Diag. Ther.* **2008**, *12*, 1-14.
144. A. Hirsch, U. Sagman, S. R. Wilson, M. G. Rosenblum and L. J. Wilson, "Use of Carbon Nanotube for Drug Delivery," U. S. Patent Application, Serial No. 11/841,087, filed August 20, 2007.
143. B. Sitharaman, A. G. Mikos, L. J. Wilson, X. Shi, "Carbon nanotube based nanocomposites," Provisional Patent Application filed January 11, 2007, Reg. No. 37,733.
142. K. B. Hartman and L. J. Wilson, "Carbon Nanostructures as a New High-performance Platform for MR Molecular Imaging," invited book chapter in *Nanostructures for Biomedical Applications*, Warren Chan, Ed., Landes Bioscience and Eurekah, Georgetown, Texas, **2007**, 74-84.
141. B. Sitharaman, L. J. Wilson, "Gadofullerenes and Gadonanotubes: A New Paradigm for High-Performance MRI Contrast Agent Probes," invited book chapter in *Journal of Biomedical Nanotechnology*, Labhasetwar, P., Leslie-Pelecky, D. L., Eds., John Wiley and Sons, Chichester, **2007**, Vol. 3, 1-11.

140. K. B. Hartman, D. K. Hamlin, D. S. Wilbur, L. J. Wilson, "211AtCl@US-tube Nanocapsules: A New Concept in Radiotherapeutic Agent Design," *Small* **2007**, 3, 1496-1499.
139. X. Shi, B. Sitharaman, Q. P. Pham, F. Liang, K. Wu, W. E. Billups, L. J. Wilson, A. G. Mikos, "Fabrication of porous ultra-short single-walled carbon nanotube nanocomposite scaffolds for bone tissue engineering," *Biomaterials* **2007**, 28, 4078-4090.
138. B. Sitharaman, L. A. Tran, Q. P. Pham, R. D. Bolskar, R. Muthupillai, S. D. Flamm, A. G. Mikos, L. J. Wilson, "Gadofullerenes as Nanoscale Magnetic Labels for Cellular MRI," *Contrast Media and Molecular Imaging* **2007**, 2, 139-146.
137. S. Laus, B. Sitharaman, E. Toth, R. D. Bolskar, L. Helm, L. J. Wilson and A. E. Merbach, "Understanding Paramagnetic Relaxation Phenomenon for Water-soluble Gadofullerenes," *J. Phys. Chem. C* **2007**, 111, 5633-5639.
136. B. Sitharaman, X. Shi, L. A. Tran, P. P. Spicer, I. Rusakova, L. J. Wilson and A. G. Mikos, "Injectable *in Situ* Cross-linkable Nanocomposites of Biodegradable Polymers and Carbon Nanostructures for Bone Tissue Engineering," *J. Biomater. Sci., Polym. Ed.* **2007**, 18, 655-671.
135. Y. Mackeyev, S. Bachilo, K. B. Hartman and L. J. Wilson, "The Purification of HiPCo SWCNTs with Liquid Bromine at Room Temperature," *Carbon* **2007**, 45, 1013-1017.
134. J. M. Ashcroft, K. B. Hartman, K. R. Kissell, Y. Mackeyev, S. Pheasant, S. Young, P. A. van der Heide, A. G. Mikos and L. J. Wilson, "Single-molecule I2@US-tube Nanocapsules: A New X-ray Contrast Agent Design," *Adv. Mater.* **2007**, 19, 573-576.
133. B. Sitharaman and L. J. Wilson, "Gadonanotubes as New High Performance MRI Contrast Agents," *Int. J. of Nanomedicine* **2006** 1, 291-295.
132. J. M. Ashcroft, K. B. Hartman, Y. Mackeyev, C. Hofmann, S. Pheasant, L. B. Alemany and L. J. Wilson, "Functionalization of Individual Ultra-short Single-Walled Carbon Nanotubes," *Nanotechnology* **2006**, 17, 5033-5037.
131. K. R. Kissell, K. B. Hartman, P. van der Heide, and L. J. Wilson, "Preparation of I2@SWNTs: Synthesis and Spectroscopic Characterization of I2-loaded SWNTs," *J. Phys. Chem. B* **2006**, 110, 17425-17429.
130. J. M. Ashcroft, D. A. Tsyboulski, K. B. Hartman, T. Y. Zakharian, J. W. Marks, R. B. Weisman, M. G. Rosenblum and L. J. Wilson, "Fullerene (C60) immunoconjugates: interaction of water-soluble C60 derivatives with the murine anti-gp240 melanoma antibody," *Chem. Commun.* **2006**, 3004-3006.
129. L. J. Wilson and M. R. Rosenblum, "Targeted Nanostructure-Drug Conjugates for Therapeutic Applications," U.S. Provisional Patent Application No. 60822837, filed August 18, **2006**.
128. L. J. Wilson, J. M. Ashcroft and M. G. Rosenblum, "Targeted Nanostructures for Cellular Imaging," U. S. Provisional Patent Application No. 60/803,641 Filed 06/01/**2006**.
127. L. J. Wilson, K. R. Kissell, K. B. Hartman, "Carbon Nanotube Based Imaging Agents," U. S. Provisional Patent Application No. 60/747,874, filed May 22, **2006**.
126. Y. Mackeyev and L. J. Wilson, "Facile Purification of Carbon Nanotubes with Liquid Bromine at Room Temperature," U. S. Provisional Patent Application, submitted January, **2006**
125. L. J. Wilson and M. G. Rosenblum, "Short Carbon Nanotubes as Adsorption and Retention Agents," U. S. Patent Application 20060051290, filed July 13, **2005**.

124. T. Y. Zakharian, A. Seryshev, B. Sitharaman, B. E. Gilbert, V. Knight, and L. J. Wilson, "A Fullerene-Paclitaxel Chemotherapeutic: Synthesis, Characterization, and Study of Biological Activity in Tissue Culture," *J. Am. Chem. Soc.* **2005**, *127*, 12508-12509.
123. B. Sitharaman, K. R. Kissell, K. B. Hartman, L. A. Tran, A. Baikalov, I. Rusakova, Y. Sun, H. A. Khant, S. J. Ludtke, W. Chiu, S. Laus, É. Tóth, L. Helm, A. E. Merbach, and L. J. Wilson, "Superparamagnetic Gadonanotubes Are High-Performance MRI Contrast Agents," *Chem. Commun.* **2005**, 3915-3917.
122. S. Laus, B. Sitharaman, É. Tóth, R. D. Bolskar, L. Helm, S. Asokan, M. S. Wong, L. J. Wilson and A. E. Merbach, "Destroying Gadofullerene Aggregates by Salt Addition in Aqueous Solution of Gd@C60(OH)<sub>x</sub> and Gd@C60[C(COOH)<sub>2</sub>]<sub>10</sub>," *J. Am. Chem. Soc.* **2005** *127*, 9368-9369.
121. Y. A. Mackeyev, J. W. Marks, M. G. Rosenblum, and L. J. Wilson, "Stable Containment of Radionuclides on the Nanoscale by Cut Single-Wall Carbon Nanotubes," *J. Phys. Chem. B* **2005**, *109*, 5482-5484.
120. E. Toth, R. D. Bolskar, A. Borel, G. Gonzalez, L. Helm, A. E. Merbach, B. Sitharaman and L. J. Wilson, "Water-Soluble Gadofullerenes: Toward High-Relaxivity, pH-Responsive MRI Contrast Agents," *J. Am. Chem. Soc.* **2005**, *127*, 799-805.
119. B. Sitharaman, R. D. Bolskar, I. Rusakova, and L. J. Wilson, "Gd@C60[C(COOH)<sub>2</sub>]<sub>10</sub> and Gd@C60(OH)<sub>x</sub>: Nanoscale Aggregation Studies of Two Metallofullerene MRI Contrast Agents in Aqueous Solution," *Nano Lett.* **2004**, *4*, 2373-2378.
118. C. M. Sayes, J. D. Fortner, W. Guo, D. Lyon, A. M. Boyd, K. D. Ausman, Y. J. Tao, B. Sitharaman, L. J. Wilson, J. B. Hughes, J. L. West, V. L. Colvin, "The Differential Cytotoxicity of Water Soluble Fullerenes," *Nano Lett.* **2004**, *4*, 1881-1887.
117. L. O. Husebo, B. Sitharaman, K. Furukawa, T. Kato and L. J. Wilson, "Fullerenols Revisited as Stable Radical Anions," *J. Am. Chem. Soc.* **2004**, *126*, 12055-12064.
116. B. Sitharaman, S. Asokan, I. Rusakova, M. S. Wong, and L. J. Wilson, "Nanoscale Aggregation Properties of Neuroprotective Carboxyfullerene (C3) in Aqueous Solution," *Nano Lett.* **2004**, *4*, 1759-1762.
115. T. Zakharian, J. Ashcroft, A. Mirakyan, D. Tsboulski, N. Benedict, R. B. Weisman, L. J. Wilson, M. R. Rosenblum "Toward Targeted Fullerene Cancer Therapy: Design and Synthesis of a Paclitaxel-C60-Antibody Conjugate," in *Fullerenes and Nanotubes: Materials for the New Chemical Frontier*, Kamat, P. V., Guldi, D. M., D'Souza, F, Fukuzumi, S. Eds.; Fullerenes – 14, The Electrochemical Society: Pennington, NJ, (**2004**), Vol. 12, 338-348.
114. B. Sitharaman, L. J. Wilson, R. D. Bolskar, G. Gonzalez, E. Toth, L. Helm and A. E. Merbach "Dynamic Light Scattering and Relaxometric Studies of Water-Soluble Gd@C60 Derivatives as pH-Responsive MRI Contrast Agents," in *Fullerenes and Nanotubes: Materials for the New Chemical Frontier*, Kamat, P. V., Guldi, D. M., D'Souza, F, Fukuzumi, S. Eds.; Fullerenes – 14, The Electrochemical Society: Pennington, NJ, (**2004**), Vol. 12, 330-337.
113. L. J. Wilson, A. L. Mirakyan and M. P. Cabbage, "Fullerene (C60) Vancomycin Conjugates as Improved Antibiotics," U. S. Patent Application 20040241173, filed February 11, **2004**.
112. L. J. Wilson, J. T. Wharton and U. Sagman, "Fullerene(C60)-Based X-Ray Contrast Agent for Diagnostic Imaging," U. S. Patent No.: 6,660,248, issued December 9, **2003**.

111. R. D. Bolskar, A. F. Benedetto, L. O. Husebo, R. E. Price, E. F. Jackson, S. Wallace, L. J. Wilson and J. M. Alford, "First Soluble M@C60 Derivatives Provide Enhanced Access to Metallofullerenes and Permit in Vivo Evaluation of Gd@C60[C(COOH)2]10 as a MRI Contrast Agent," *J. Am. Chem. Soc.* **2003**, *125*, 5471-5478.
110. A. L. Mirakyan and L. J. Wilson, "Design of Water-Soluble Bone-Vectored Fullerenes," in The Exciting World of Nanocages and Nanotubes, Vol. 12, **2002**, 407-413.
109. R. D. Bolskar, J. M. Alford, A. F. Benedetto, L. O. Husebo and L. J. Wilson, "Development of Gd@C60 Based MRI Contrast Enhancing Agents," in The Exciting World of Nanocages and Nanotubes, Vol. 12, **2002**, 398-406.
108. A. L. Mirakyan, L. J. Wilson, R. D. Bolskar and M. Alford, "Exploring Holmium Metallofullerenes for Medical Applications," in The Exciting World of Nanocages and Nanotubes, Vol. 12, **2002**, 390-397.
107. J. M. Alford and L. J. Wilson, "Fullerene Contrast Agent for Magnetic Resonance Imaging and Spectroscopy," European Patent Office No. 00972014.5-2305-US0027500, May 5, **2002**.
106. T. Wharton and L. J. Wilson, "Highly-iodinated Fullerene as a Contrast Agent for X-ray Imaging," *Bioorg. Med. Chem.* **2002**, *10*, 3545-3554.
105. A. L. Mirakyan and L. J. Wilson, "Functionalization of C60 with Diphosphonate Groups: A Route to Bone-Vectored Fullerenes," *J. Chem. Soc. Perkin Trans. II* **2002**, 1173-1176.
104. J. M. Alford and L. J. Wilson, "Fullerene Contrast Agent for Magnetic Resonance Imaging and Spectroscopy," U. S. Patent Application No.: 6,355,225 issued March 12, 2002.
103. K. A. Gonzalez, L. J. Wilson, W. Wu and G. H. Nancollas, "Synthesis and *In Vitro* Characterization of a Tissue-Selective Fullerene: Vectoring C60(OH)16AMPB to Mineralized Bone," *Bioorg. Med. Chem.* **2002**, *10*, 1991-1997.
102. T. Wharton and L. J. Wilson, "Toward Fullerene-based X-ray Contrast Agents: Design and Synthesis of Non-ionic, Highly-iodinated Derivatives of C60," *Tetrahedron Lett.* **2002**, *43*, 561-564.
101. L. J. Wilson, U. Sagman, K. A. Gonzalez and K. Pritzker, "Fullerene-Based Drugs Targeted to Bone," U. S. Patent Application Serial No.: 20040038946, filed April 27, 2001.
100. J. M. Alford and L. J. Wilson, "Fullerene Contrast Agent for Magnetic Resonance Imaging and Spectroscopy," World Patent Publication No. WO 01/24696 A1, 12 April 2001.
99. A. Mirakyan and L. J. Wilson, "Derivatization of C60 with Diphosphonate Groups," in Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 11, P. V. Kamat, D. M. Guldi and K. Kadish, Eds., The Electrochemistry Society **2001**, 270-276.
98. T. P. Thrash and L. J. Wilson, "Zn(II), Ni(II), Cu(II), and Fe(III) Complexes of Potentially-Bimetallating Tris(Pyridine- and Imidazole-Appended) Picket-Fence Naphthylporphyrins with Benzyl Ether Spacers: Implications for Cytochrome c Oxidase Active-Site Modeling," *Inorg. Chem.* **2001**, *40*, 4556-4562.
97. T. Wharton, V. U. Kini, R. A. Mortis and L.J. Wilson, "New Non-Ionic, Highly Water-Soluble Derivatives of C60 Designed for Biological Compatibility," *Tetrahedron Lett.* **2001**, *42*, 5159-5162.
96. B Xie, L. J. Wilson and D. M. Stanbury, "Cross-Electron-Transfer Reactions of the [Cu(I/II)(bite)]2+/- Redox Couple," *Inorg. Chem.* **2001**, *40*, 3606-3614.

95. G. J. Ehrhardt and L. J. Wilson, "Fullerene Radiopharmaceuticals," in Nuclear and Radiation Chemical Approaches to Fullerene Science, Vol. 1, T. Braun, ed., Kluwer Academic Publishers, **2000**, 174-177.
94. L. J. Wilson and U. Sagman, "Fullerene-Based X-ray Contrast Agent for Diagnostic Imaging," U. S. Patent Application Serial No.: yet unassigned, filed November 10, 2000.
93. L. J. Wilson, U. Sagman and K. A. Gonzalez, "Fullerene-Based Drugs Targeted to Bone," U. S. Patent Application Serial No.: 60/199,970, filed April 27, 2000. (Provisional patent)
92. R. B. Weisman and L. J. Wilson, "Undergraduate Experiments in Fullerene Electrochemistry and Photophysics," in Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 12, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society **2000**, 7-15.
91. T. Wharton, J. M. Alford, L. O. Husebo and L. J. Wilson, "Paramagnetic Malonodiamide Derivatives of C60 as MRI Contrast Agent Precursors," in Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 9, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society **2000**, 258-266.
90. L. J. Wilson, "Medical Applications of Fullerenes and Metallofullerenes," *Interface* **1999** 8, 24-28.
89. D. W. Cagle, J. M. Alford and L. J. Wilson, "Metallofullerene Sample Analysis by Mass Spectrometry (LD-TOF MS), Neutron-Activation Analysis (NAA) and Inductively-Coupled Plasma Atomic Emission Spectroscopy (ICP-AE)," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 5, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society **1999**, 250-255.
88. L. J. Wilson, D. W. Cagle, T. P. Thrash, S. J. Kennel, S. Mirzadeh, J. M. Alford and G. J. Ehrhardt, "Metallofullerene Drug Design," *Coord. Chem. Rev.* **1999**, 190-192, 199-207.
87. T. P. Thrash, D. W. Cagle, J. M. Alford, K. Wright, G. J. Ehrhardt, S. Mirzadeh and L. J. Wilson, "Toward Fullerene-Based Radiopharmaceuticals: High Yield Neutron Activation of Endohedral <sup>165</sup>Ho Metallofullerenes," *Chem. Phys. Lett.* **1999**, 308, 329-336.
86. D. W. Cagle, S. J. Kennel, S. Mirzadeh, J. M. Alford and L. J. Wilson, "*In Vivo* Studies of Fullerene-Based Materials Employing Endohedral Metallofullerene Radiotracers," *Proc. Nat. Acad. Sci. USA* **1999**, 96, 5182-5187.
85. B. Xie, T. Elder, L. J. Wilson and D. M. Stanbury, "Internal Reorganization Energies for Copper Redox Couples: The Slow-Electron Transfer Reactions of the [CuII/I(bib)2]2+/- Couple," *Inorg. Chem.* **1999**, 38, 12-19.
84. J. E. Bradshaw, K. A. Gillogly, L. J. Wilson, K. Kumar, X. Wan, M. F. Tweedle, G. Hernandez and R. G. Bryant, "New Non-ionic Water-Soluble Porphyrins: Evaluation of Manganese(III) Polyhydroxylamide Porphyrins as MRI Contrast Agents," *Inorg. Chim. Acta.* **1998**, 275-276, 106-116.
83. S. Flanagan, J. Dong, K. Haller, S. Wang, W. R. Scheidt, R. A. Scott, T. R. Webb, D. M. Stanbury and L. J. Wilson, "Macrocyclic [CuI/II(bite)]+/2+: An Example of Fully-Gated Electron Transfer and its Biological Relevance," *J. Am. Chem. Soc.* **1997**, 119, 8857-8868.
82. D. W. Cagle, J. M. Alford, J. Tien and L. J. Wilson, "Gadolinium-Containing Fullerenes for MRI Contrast Agent Applications," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 4, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1997**, 361-368.

81. R. E. Schinazi, L. Y. Chiang, L. J. Wilson, D. W. Cagle and C. L. Hill, "Anti-Human Immunodeficiency Virus Activity of Polyhydroxy Fullerenes *in Vitro*," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 4, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1997**, 357-360.
80. T. P. Thrash, D. W. Cagle, M. Alford, G. J. Ehrhardt, J. C. Lattimer and L. J. Wilson, "166Ho Metallofullerenes: Nuclear Medicine Precursors," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 4, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1997**, 349-356.
79. D. W. Cagle, T. P. Thrash, L. J. Wilson, G. J. Ehrhardt, M. Alford and L. P. F. Chibante, "Toward Fullerene Radiopharmaceuticals: Neutron Activation of Endohedral 165Holmium Metallofullerenes," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 3, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1996**, 854-869.
78. D. W. Cagle, T. P. Thrash, M. Alford, L. P. F. Chibante, G. J. Ehrhardt and L. J. Wilson, "Synthesis, Characterization and Neutron Activation of Holmium Metallofullerenes," *J. Am. Chem. Soc.* **1996**, *118*, 8043-8047.
77. Y. Yang, F. Arias, L. Echegoyen, S. Flanagan, A. Robertson, L. J. Wilson and L. P. F. Chibante, "Anodic and Cathodic Electrochemistry of Higher Fullerenes," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 2, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1995**, 306-313.
76. K. L. S. Lawrence, G. J. Ehrhardt, D. W. Cagle, T. P. Thrash and L. J. Wilson, "Fullerene Radiopharmaceuticals? High-Flux Neutron Irradiation Study of C60," in Fullerenes: Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials: Vol. 2, K. Kadish and R. S. Ruoff, Eds., The Electrochemistry Society, **1995**, 66-71.
75. Y. Yang, F. Arias, L. Echegoyen, L. P. F. Chibante, S. Flanagan, A. Robertson, and L. J. Wilson, "Reversible Fullerene Electrochemistry: Correlation with the HOMO-LUMO Energy Difference for C60, C70, C76, C78 and C84," *J. Am. Chem. Soc.* **1995**, *117*, 7801-7804.
74. S. A. Moy, J. A. González and L. J. Wilson, "Molecular Stereochemistry of [FeIII(TPP)(OCOCF3)]," *Acta. Cryst.* **1995**, *C51*, 1490-1494.
73. J. E. Bradshaw, S. Moghaddas and L. J. Wilson, "Toward Synthetic Analogues of the Sulfite Reductase Active Site: Insertion of Tetraphenylporphyrinmonothiolate into the [Fe4S4]2+ Cubane Cluster Core," *Gazz. Chim. It.* **1994**, *124*, 159.
72. J. A. González and L. J. Wilson, "Spin-State Isomerism in Crystalline [FeIII(TPP)(OSO2CF3)]," *Inorg. Chem.* **1994**, *33*, 1543-1553.
71. M. F. Tweedle, L. J. Wilson, J. E. Bradshaw and D. L. Lee, "Paramagnetic metalloporphyrins as contrast agents for magnetic resonance imaging," U. S. Patent No. 5,262,532 (1993).
70. S. Moghaddas, J. E. Bradshaw, T. C. Arnst, K. H. Whitmire and L. J. Wilson, "Synthesis and Characterization of New Mono- and Tetrathio porphyrin Compounds," *J. Inorg. Biochem.* **1993**, *51*, 72.
69. S. Flanagan, J. A. González, J. E. Bradshaw, D. M. Stanbury, K. J. Haller, W. R. Scheidt and L. J. Wilson, "Electron-Transfer Studies of Tetrahedral Macrocyclic Coordination-Number-Invariant Copper Complexes," *J. Inorg. Biochem.* **1993**, *51*, 49.

68. C. A. Chang, L. C. Francesconi, M. F. Malley, J. Z. Gougoutas, M. F. Tweedle, D. W. Lee and L. J. Wilson, "Syntheses, Molecular Structures, and Solution Relaxivities of [Fe(DO3A)], Na[FeDOTA)], [Gd(DO3A)]," *Inorg. Chem.* **1993**, 32, 3501-3508.
67. S. Flanagan, J. A. González, J. E. Bradshaw, L. J. Wilson, D. M. Stanbury, K. J. Haller and W. R. Scheidt, "Studies of CNI Copper Coordination Compounds: What Determines the Electron-Transfer Rate of the Blue Copper Proteins?," in Copper Coordination Chemistry: Bioinorganic Perspectives, Chapman and Hall, 112, **1993**.
66. L. J. Wilson, S. Flanagan, V. Khabashesku, M. Alford, F. Chibante, M. Diener, C. Fargason and E. Roche, "Electrochemical Studies and Syntheses of Fulleride-Derived Materials," in World Congress on Superconductivity: Proceedings of the 3rd International Conference and Exhibition, K. Krishen and C. G. Burnham, Eds., Pergamon Press, 913, **1993**.
65. L. J. Wilson, S. Flanagan, L. P. F. Chibante and J. M. Alford, "Fullerene Electrochemistry: Detection, Generation, and Study of Fulleronium and Fulleride Ions in Solution," in Buckminsterfullerenes, W. E. Billups and M. A. Ciufolini Eds., VCH, Chapter 11, 285, **1993**.
64. D. W. Lee, V. Chunplang, J. E. Bradshaw, G. Baker, A. Jain, M. Noguchi, J. Schoonover, G. Palmer and L. J. Wilson, "Magnetic Properties of the Cytochrome c Oxidase Active Site," *J. Inorg. Biochem.* **1991**, 43, 325.
63. S. Flanagan, J. A. González, J. E. Bradshaw, D. M. Stanbury, W. R. Scheidt and L. J. Wilson, "Copper Chemistry of Biological Relevance: A New Macrocyclic [Cu<sub>2</sub>L<sub>2</sub>N<sub>2</sub>S<sub>2</sub>]<sup>+2+</sup> Couple," *J. Inorg. Biochem.* **1991**, 43, 203.
62. D. Dubois, K. M. Kadish, S. Flanagan and L. J. Wilson, "Electrochemical Detection of Fulleronium and Highly-Reduced Fulleride (C60<sup>-</sup>) Ions in Solution," *J. Am. Chem. Soc.* **1991**, 113, 7773.
61. D. Dubois, K. M. Kadish, S. Flanagan, R. E. Haufler, L. P. F. Chibante and L. J. Wilson, "Spectroelectrochemical Study of the C60 and C70 Fullerenes and Their Mono-, Di-, Tri- and Tetraanions," *J. Am. Chem. Soc.* **1991**, 113, 4364.
60. K. D. Karlin, Z. Tyeklár, A. Farooq, R. R. Jacobson, E. Sinn, D. W. Lee, J. E. Bradshaw and L. J. Wilson, "Peroxide (O<sub>2</sub><sup>2-</sup>) as a Bridging Ligand for Copper(II): Strong Exchange Coupling in Complexes Derived from Copper(I) and Dioxygen," *Inorg. Chim. Acta Lett.* **1991**, 182, 1.
59. J. D. Hazle, L. Hefner, L. J. Wilson, C. E. Nyerick and A. L. Boyer, "Dose Response Characteristics of a Ferrous Sulfate Doped Gelatin System for Determining Radiation Absorbed Dose Distributions by Magnetic Resonance Imaging (FeMRI)," *Phys. Med. Biol.* **1991**, 36, 1117.
58. S. A. Moy, J. E. Bradshaw, D. W. Lee and L. J. Wilson, "Reinvestigation of a  $\mu$ -Imidazolato [Mn(III)-Cu(II)] Metalloporphyrin Complex with Novel ESR Characteristics," *Inorg. Chim. Acta Lett.* **1991**, 179, 7.
57. D. K. Coggin, J. A. González, A. M. Kook, W. R. Scheidt, D. M. Stanbury and L. J. Wilson, "An Electron Self-Exchange Study of the Coordination-Number-Invariant Pentacoordinate Copper(I/II) Couple, [Cu<sub>2</sub>L<sub>2</sub>((5-MeimidH)<sub>2</sub>DAP)]<sup>+2+</sup>," *Inorg. Chem.* **1991**, 30, 1125.
56. D. K. Coggin, J. A. González, A. M. Kook, D. M. Stanbury and L. J. Wilson, "Ligand Dynamics in Pentacoordinate Copper(I) and Zinc(II) Complexes," *Inorg. Chem.* **1991**, 30, 1115.
55. R. E. Haufler, J. Conceicao, L. P. F. Chibante, Y. Chai, N. E. Byrne, S. Flanagan, M. M. Haley, S. C. O'Brien, C. Pan, Z. Xiao, W. E. Billups, M. A. Ciufolini, R. H. Hauge, J. L. Margrave, L. J. Wilson, R. F. Curl and R. E. Smalley, "Efficient Production of C60 (Buckminsterfullerene), C60H36, and the Solvated Buckide Ion," *J. Phys. Chem.* **1990**, 94, 8634.

54. J. A. Goodwin, L. J. Wilson, D. M. Stanbury and R. A. Scott, "Ligand-Substitution and Electron-Transfer Reactions of Pentacoordinate Copper(I) Complexes," *Inorg. Chem.* **1989**, *28*, 42.
53. J. A. Goodwin, G. A. Bodager, L. J. Wilson, D. M. Stanbury, and W. R. Scheidt, "The Pentacoordinate [Cu(imidH)2DAP]<sup>+</sup> Cation: Its Structural Verification, Ligand Rearrangement, and Deceptive Reaction with Dioxygen," *Inorg. Chem.* **1989**, *28*, 35.
52. J. A. Goodwin, D. M. Stanbury, L. J. Wilson, G. A. Bodager and W. R. Scheidt, "Reaction of Dioxygen with Synthetic Copper(I) Compounds of Biological Relevance," *Oxygen Complexes and Oxygen Activation by Transition Metals*, A. E. Martell and D. T. Sawyer, Ed., Plenum Press, **1988**, p. 328.
51. M. F. Tweedle, G. T. Gaughan, J. Hagen, P. W. Wedeking, L. J. Wilson and D. W. Lee, "Characterization of Paramagnetic Coordination Compounds as Potentially Useful NMR Contrast Agents," *Nucl. Med. Biol.* **1988**, *15*, 31.
50. J. A. Goodwin, D. M. Stanbury, L. J. Wilson, C. W. Eigenbrot and W. R. Scheidt, "Molecular Structures and Electron-Transfer Kinetics for Some Pentacoordinate CuI/CuII Redox-Active Pairs," *J. Am. Chem. Soc.* **1987**, *109*, 2979.
49. R. M. Kirchner, C. Mealli, L. Andrews, M. Bailey, N. Howe, L. Torre, L. J. Wilson, N. J. Rose and E. C. Lingafelter, "The Variable Coordination Chemistry of a Potentially Heptadentate Ligand with the 3d<sup>5-10</sup> Series of Metal(II) Ions. The Chemistry and Molecular Structures of the [MII(py3tren)]<sup>2+</sup> Cations with M = Mn, Fe, Co, Ni, Cu, Zn, and (py3tren) = N[CH<sub>2</sub>CH<sub>2</sub>N = C(H)(C<sub>5</sub>H<sub>6</sub>N)]<sub>3</sub>," *Coord. Chem. Rev.* **1987**, *77*, 89.
48. P. Bergamini, P. Deplano, L. J. Wilson, S. Sostero and O. Traverso, "Dioxygen Activation in the Photochemistry of Some Oxo-Metalloporphyrin Complexes," *J. Chem. Soc. Dalton Trans.* **1986**, 2311.
47. "Metals in Biological Processes" (Book Review), *Inorg. Chim. Acta* **1984**, *92*, 165.
46. V. Chunplang and L. J. Wilson, "Cytochrome Oxidase Models. A  $\mu$ -Imidazolato Complex from Copper(II) and [MnII(TPP)] with Magnetic and E.S.R. Signature of the Cytochrome c Oxidase Active Site," *Chem. Commun.* **1985**, 1761.
45. J. A. Goodwin, D. M. Stanbury, L. J. Wilson and R. A. Scott, "Reversible Reactions of Dioxygen with Synthetic Copper(I) Complexes under Ambient Conditions," *Copper Coordination Chemistry II. Biochemical and Inorganic Perspectives*, Karlin and Zubieta, Eds., Adenine Press, New York, **1985**, p. 11.
44. T. Zhu, C. H. Su, D. Schaeper, B. K. Lemke, L. J. Wilson and K. M. Kadish, "Solvent and Structure Effects on the Spin-Crossover and Electron-Transfer Properties of [FeIII(X-Salmeen)<sub>2</sub>](PF<sub>6</sub>) and [FeIII(X-Sal)<sub>2</sub>trien](PF<sub>6</sub>) Complexes," *Inorg. Chem.* **1984**, *23*, 4345.
43. R. J. Saxton and L. J. Wilson, "Cytochrome c Oxidase Models. A  $\mu$ -Imidazolato Complex of Copper(II) and Iron(III) Derived from an Appended-Tail Porphyrin," *Chem. Commun.* **1984**, 359.
42. C. L. Merrill, T. J. Thamann, T. M. Loehr, N. S. Ferris, W. H. Woodruff and L. J. Wilson, "Synthesis and Characterization of Imidazole-bearing Copper(I) Complexes and Their Reversible Reaction with Dioxygen," *J. Chem. Soc. Dalton Trans.* **1984**, 2207.
41. L. J. Wilson, V. Chunplang, B. K. Lemke, C. L. Merrill, R. J. Saxton and M. L. Watson, "Modeling Studies of the Iron/Copper Binuclear Active Site of Bovine Cytochrome c Oxidase," *Inorg. Chim. Acta Bioinorg.* **1983**, *79*, 107.

40. T. Zhu, C. H. Su, B. K. Lemke, L. J. Wilson and K. M. Kadish, "Redox Reactions of Variable-Spin Six-Coordinate Bis(N-R-2,6-pyridine-dicarboxaldimine)cobalt(II) Complexes," *Inorg. Chem.* **1983**, *22*, 2527.
39. R. J. Saxton, L. W. Olsen and L. J. Wilson, "Cytochrome c Oxidase Models. A  $\mu$ -Oxo Mixed-Metal Complex of Copper(II) and an Iron(III) Porphyrin as a Resting State Model for the Cytochrome c Oxidase Active Site," *Chem. Commun.* **1982**, 984.
38. P. Deplano, E. F. Trogu, F. Bigoli, E. Leporati, M. A. Pellinghelli, D. L. Perry, R. J. Saxton and L. J. Wilson, "Synthesis and Magnetochemical, Spectroscopic, and Structural Studies of New Tris(N,N-dialkyldiselenocarbamato)iron(IV) Tetrafluoroborate Complexes," *J. Chem. Soc. Dalton Trans.* **1983**, 25.
37. K. M. Kadish, C. H. Su, D. Schaeper, C. L. Merrill and L. J. Wilson, "The Effect of Spin State on the Redox and Electron Transfer Properties of the Variable-Spin Family of  $[\text{Fe}^{\text{II}}(\text{6-MePy})_n(\text{Py})_{3-n}(\text{tren})](\text{PF}_6)_2$  Complexes in Solution," *Inorg. Chem.* **1982**, *21*, 3433.
36. K. M. Kadish, C. H. Su and L. J. Wilson, "Spin State Dependence of Heterogeneous Electron Transfer Rates for the  $[\text{Fe}^{\text{III}}(\text{X-Sal})_2(\text{tren})]^+$  Spin-Equilibrium System in Solution," *Inorg. Chem.* **1982**, *21*, 2312.
35. D. L. Perry, L. J. Wilson, K. R. Kunze, L. Maleki, P. Deplano and E. F. Trogu, "Low-Temperature Magnetochemical and Spectroscopic Studies of Variable-Spin Tris(monothio-carbamato)iron(III) and Tris(diselenocarbamato)iron(III) Complexes," *J. Chem. Soc. Dalton Trans.* **1981**, 1294.
34. L. J. Wilson, C. L. Merrill, M. G. Simmons, J. M. Trantham, L. A. Bottomley and K. M. Kadish, "Synthetic Copper(I) Oxygen-Carriers as Hemocyanin Model Compounds," chapter in *Invertebrate Oxygen Binding Proteins. Structure, Active Site, and Function*, J. Lamy and J. Lamy Ed., Marcel Dekker, Inc., New York, **1981**, p. 571.
33. S. E. Dessens, C. L. Merrill, R. J. Saxton, R. L. Ilaria, J. W. Lindsey and L. J. Wilson, "Cytochrome Oxidase Models. Spin Coupling Across Imidazolate Bridges in Binuclear Metalloporphyrin Complexes of Iron and Copper," *J. Am. Chem. Soc.* **1982**, *104*, 4357.
32. G. Sim, E. Sinn, R. H. Petty, C. L. Merrill and L. J. Wilson, "Electronic and Molecular Structure of Variable-Spin Metal Complexes. Spin State Dependent Crystal and Molecular Structures of  $[\text{Fe}^{\text{III}}(\text{5-OCH}_3\text{SalMeen})_2\text{PH}_6$  ( $S=1/2$ ),  $[\text{Fe}^{\text{III}}(\text{3-OCH}_3\text{SalMeen})_2\text{PH}_6$  ( $S=1/2$ ), and  $[\text{Fe}^{\text{III}}(\text{5-NO}_2\text{SalMeen})_2\text{PH}_6$  ( $S=1/2$ )," *Inorg. Chem.* **1981**, *20*, 1213.
31. K. M. Kadish, K. Das, D. Schaeper, C. L. Merrill, B. R. Welch and L. J. Wilson, "Spin State Dependent Redox Properties of the  $[\text{Fe}^{\text{III}}(\text{X-Sal})_2(\text{tren})]^+$  Spin-Equilibrium System in Solution," *Inorg. Chem.* **1980**, *19*, 2816.
30. J. D. Korp, I. Bernal, C. L. Merrill and L. J. Wilson, "Crystal and Molecular Structure of the  $\{\text{Bis-2,6-[1-(2-imidazol-4-ylethyl-imino)ethyl]pyridine}\}$ copper(II) and Zinc(II) Cations: Pentacoordinate Relatives of a Copper(I) Oxygen-Carrier," *J. Chem. Soc. Dalton Trans.* **1981**, 1951.
29. R. H. Petty, B. R. Welch, L. J. Wilson, L. A. Bottomley and K. M. Kadish, "Cytochrome Oxidase Models.  $\mu$ -Bipyrimidyl Mixed-Metal Complexes as Synthetic Models for the Iron/Copper Binuclear Active Site in Cytochrome Oxidase," *J. Am. Chem. Soc.* **1980**, *102*, 611.
28. M. G. Simmons, C. L. Merrill, L. J. Wilson, L. A. Bottomley and K. M. Kadish, " $\{\text{Bis-2,6-[1-(2-imidazol-4-ylethylimino)ethyl]pyridine}\}$ copper(I) Cation: A Synthetic Cu(I) Oxygen-Carrier in Solution as a Potential Model for Oxyhemocyanin," *J. Chem. Soc. Dalton Trans.* **1980**, 1827.

27. "Copper(I) Complex Mimics Hemocyanin," A Research Report by *Chem. and Eng. News* September 25, **1978**, p. 50.
26. M. F. Tweedle, L. J. Wilson, L. Garcia-Iniguez, G. T. Babcock and G. Palmer, "The Magnetic Susceptibility of Beef Heart Cytochrome Oxidase and Some of Its Derivatives from 7-200 K. Direct Evidence for an Antiferromagnetically Coupled Fe(III)/Cu(II) Pair," *J. Biol. Chem.* **1978**, *22*, 8065.
25. R. A. Binstead, J. K. Beattie, E. V. Dose, M. F. Tweedle and L. J. Wilson, "Intersystem Crossing Observed by Ultrasonic Relaxation of the  $2T \rightleftharpoons 6A$  Spin-Equilibrium of Hexadentate Iron(III) Complexes in Solution," *J. Am. Chem. Soc.* **1978**, *100*, 5609.
24. M. G. Simmons and L. J. Wilson, "A Hemocyanin Model: A Synthetic Cu(I) Complex Having Imidazole Ligands and Reversible Dioxygen Activity," *Chem. Comm.* **1978**, 634.
23. R. H. Petty and L. J. Wilson, "Cytochrome Oxidase Models: A Binuclear Iron-Copper Site with a Bipyrimidine Bridge," *Chem Comm.* **1978**, 483.
22. E. V. Dose and L. J. Wilson, "Synthesis, and Electrochemical and Photoemission Properties of Mononuclear and Binuclear Ruthenium(II) Complexes Containing 2,2'-Bipyridine, 2,9-Dimethyl-1,10-Phenanthroline, 2,2'-Bipyrimidine, 2,2'-Biimidazole, and 2-Pyridinaldimine Ligands," *Inorg. Chem.* **1978**, *17*, 2660.
21. E. F. Hasty, L. J. Wilson and D. N. Hendrickson, "Magnetic Exchange Interactions in Transition Metal Dimers: Binuclear Copper(II) Schiff Base Compounds of Salicylaldehyde with Aromatic Polyamine," *Inorg. Chem.* **1978**, *17*, 1834.
20. G. Palmer, T. Antalis, G. T. Babcock, L. Garcia-Iniguez, M. F. Tweedle, L. J. Wilson and L. Vickery, "Electronic States of Heme in Cytochrome Oxidase," *Mechanisms of Oxidizing Enzymes* **1978**, T. P. Singer and R. Ondarza, Ed., Elsevier North Holland Press, p. 222.
19. K. A. Reeder, E. V. Dose and L. J. Wilson, "Solution State Spin-Equilibrium Properties for the Tris[2-(2'-pyridyl)-imidazole]iron(II) and Tris[2-(2'-pyridyl)benzimidazole]iron(II) Cations," *Inorg. Chem.* **1978**, *17*, 1071.
18. R. H. Petty, E. V. Dose, M. F. Tweedle and L. J. Wilson, "Bis(N-methylethylenediaminesalicylaldimato)iron(III) Complexes. Magnetic, Mössbauer and Intersystem Crossing Rate Studies in the Solid and Solution States for a New ( $S=1/2$ )  $\leftrightarrow$  ( $S=5/2$ ) Spin-Equilibrium Case," *Inorg. Chem.* **1978**, *17*, 1064.
17. M. F. Tweedle and L. J. Wilson, "A Faraday Magnetic Balance Capable of High Resolution Measurements on Metalloprotein Solutions from 6.5-300 K," *Rev. Sci. Instrum.* **1978**, *49*, 1001.
16. E. V. Dose, M. A. Hoselton, N. Sutin, M. F. Tweedle and L. J. Wilson, "Dynamics of Intersystem Crossing Processes in Solution for Six-Coordinate  $d5$ ,  $d6$ , and  $d7$  Spin-Equilibrium Complexes of Iron and Cobalt," *J. Am. Chem. Soc.* **1978**, *100*, 1141.
15. G. Sim, E. Sinn, E. V. Dose, M. F. Tweedle and L. J. Wilson, "Electronic and Molecular Structure of Variable-Spin Iron(III) Chelates with Hexadentate Ligands Derived from Triethylenetetramine and  $\beta$ -Diketones or Salicylaldehyde. Spin State Dependent Crystal and Molecular Structures of [Fe(acac)<sub>2</sub>trien]PF<sub>6</sub> ( $S=5/2$ ), [Fe(acacCl)<sub>2</sub>trien]PF<sub>6</sub> ( $S=5/2$ ), [Fe(sal)<sub>2</sub>trien][Cl·2H<sub>2</sub>O] ( $S=1/2$ ), and [Fe(sal)<sub>2</sub>trien]NO<sub>3</sub>·H<sub>2</sub>O ( $S=1/2$ )," *J. Am. Chem. Soc.* **1978**, *100*, 3375.
14. E. V. Dose, M. F. Tweedle, L. J. Wilson and N. Sutin, "A Direct Measurement of Dynamic Spin-Interconversion Rates in the Spin-Equilibrium Protein Ferric Myoglobin Hydroxide," *J. Am. Chem. Soc.* **1977**, *99*, 3886.

13. K. R. Kunze, D. L. Perry and L. J. Wilson, "Synthesis and Variable-Temperature Magnetochemical and Mössbauer Spectroscopy Studies of Tris(Monothiocarbamate)iron(III) Complexes: A New  $2T \rightleftharpoons 6A$  Spin-Equilibrium System Containing the  $FeS_3O_3$  Core," *Inorg. Chem.* **1977**, *16*, 594.
12. M. G. Simmons and L. J. Wilson, "Magnetic and Spin Lifetime Studies in Solution of a  $\Delta S = 1$  Spin - Equilibrium Process for Some Bis(N-R-2,6-Pyridindialdimine)Cobalt(II) Complexes," *Inorg. Chem.* **1977**, *16*, 126.
11. E. V. Dose, K. M. M. Murphy and L. J. Wilson, "Synthesis and Spin State Studies in Solution of  $\gamma$ -Substituted Tris( $\beta$ -Diketone) Iron(III) Complexes and Their Spin-Equilibrium  $\beta$ -Ketoimine Analogs Derived from Triethylenetetramine," *Inorg. Chem.* **1976**, *15*, 2622.
10. M. A. Hoselton, R. S. Drago, L. J. Wilson and N. Sutin, "Direct Measurement of Spin State Lifetimes in Solution for Some Iron(II) Spin-Equilibrium Complexes Derived from Hexadentate Ligands," *J. Am. Chem. Soc.* **1976**, *98*, 6967.
9. M. F. Tweedle and L. J. Wilson, "Variable-Spin Iron(III) Chelates with Hexadentate Ligands Derived from Triethylenetetramine and Various Salicylaldehydes. Synthesis, Characterization, and Solution State Studies of a New  $2T \rightleftharpoons 6A$  Spin Equilibrium Process," *J. Am. Chem. Soc.* **1976**, *98*, 4824.
8. L. J. Wilson, D. Georges and M. Hoselton, "An Electronic Spectral Study of Some Fe(II) Magnetic Isomers in Solution and a Spectral-Structural Correlation with Their Ni(II) Analogs," *Inorg. Chem.* **1975**, *14*, 2968.
7. M. Hoselton, L. J. Wilson and R. S. Drago, "Substituent Effects on the Spin-Equilibrium Observed with Hexadentate Ligands on Iron(II)," *J. Am. Chem. Soc.* **1975**, *97*, 1722.
6. E. C. Lingafelter, L. C. Andrews, R. M. Kirchner, N. J. Rose and L. J. Wilson, "Partial Hydrolysis of a Schiff Base Ligand Coordinated to Copper(II)," *Coord. Chem. Rev.* **1972**, *8*, 54.
5. L. J. Wilson and I. Bertini, "NMR Detection of *Cis* and *Trans* Isomers of Pseudooctahedral Metal(II) Complexes with the Unsymmetrical Bidentate N-R-Pyridinaldimine Ligands," *J. Coord. Chem.* **1972**, *1*, 237.
4. L. J. Wilson and I. Bertini, "*Cis-Trans* Isomerism in Solution for the Tris(N-*p*-tolyl)-pyridinaldimine)-Cobalt(II) Cation," *Chem. Comm.* **1970**, 1589.
3. I. Bertini, D. Gatteschi and L. J. Wilson, "A PMR Investigation of the Paramagnetic Tris(Bipyridine-N,N'-Dioxide) Nickel(II) and Cobalt(II) Complexes," *Inorg. Chem. Acta* **1970**, *4*, 629.
2. L. J. Wilson and I. Bertini, "The Ni(phen) $^{3+}$  - Co(phen) $^{3+}$  System: An Evaluation of the Dipolar Shift Contribution in the Proton Magnetic Resonance Spectra of Paramagnetic Cobalt(II) Complexes," *J. Chem. Soc. (A)* **1971**, 489.
1. L. J. Wilson and N. J. Rose, "Geometrically Specific Multidentate Ligands and Their Complexes I. A Nickel(II) Complex of the Potentially Heptadentate Schiff Base Derived from 2,2',2''-Triaminotriethylamine and 2-Pyridinecarboxaldehyde," *J. Am. Chem. Soc.* **1968**, *90*, 6041.