

EFT citings

- 1. NMR Spectroscopy in the Introductory Laboratory**
L. J. Kateley, Department of Chemistry, Lake Forest College, Lake Forest, Illinois 60045
American Chemical Society 30th Great Lakes Regional Meeting, Chicago IL, May 1997
- 2. Multinuclear FT-NMR Using the Anasazi EFT-600 Instrument**
S. Moeckly, G.W. Earl, A. Viste, Department of Chemistry, Augustana College, Sioux Falls, SD
Proceedings of the South Dakota Academy of Science, **1999**, 78, 63-69
<http://acadsci.sdstate.org/journal/1999.htm>
- 3. Investigating a Reaction of N-Methyltriazolinedione**
Gary W. Breton, Department of Chemistry, Berry College, Mount Berry, GA 30149-5016, gbreton@berry.edu
Chem. Educator **1999**, 4(4), 134-136
<http://chemeducator.org/bibs/0004004/00040134.htm>
- 4. A Research-Based Sophomore Organic Chemistry Laboratory**
D. Scott Davis,* Robert J. Hargrove, and Jeffrey D. Hugdahl, Department of Chemistry, Mercer University, 1400 Coleman Avenue, Macon, GA 31207; *davis_ds@mercer.edu
J. Chem. Educ., **1999**, 76(8), 1127 - 1130
<http://jchemed.chem.wisc.edu/Journal/Issues/1999/Aug/abs1127.html>
- 5. NSF Highlights: Incorporation of FT-NMR throughout the Chemistry Curriculum**
D. Scott Davis* and Dale E. Moore, Department of Chemistry, Mercer University, 1400 Coleman Avenue, Macon, GA 31207; * davis_ds@mercer.edu
J. Chem. Educ., **1999**, 76(12), 1617 - 1618
<http://jchemed.chem.wisc.edu/Journal/Issues/1999/Dec/abs1617.html>
- 6. Student-Determined Values for the Calculation of Chemical Shifts of Methylene Protons in Different Chemical Environments**
Gary W. Breton, Department of Chemistry, Berry College, Mount Berry, GA 30149-5016, gbreton@berry.edu
J. Chem. Educ., **2000**, 77(1), 81 - 83
<http://www.jce.divched.org/Journal/Issues/2000/Jan/abs81.html>
- 7. Molecular Modeling and Nuclear Overhauser Enhancement Spectroscopy (NOESY): Tools for Studying the Regioselective Bromination of 3-Bromoanisole**
Brad Andersh, Department of Chemistry, Bradley University, Peoria, IL 61625, bjandersh@bradley.edu
Chem. Educator **2000**, 5(1), 20-23
<http://chemeducator.org/bibs/0005001/00050020.htm>
- 8. The Heck Reaction: A Microscale Synthesis Using a Palladium Catalyst**
William B. Martin and Laura J. Kateley*, Department of Chemistry, Lake Forest College, Lake Forest, Illinois 60045; * kateley@lfc.edu
J. Chem. Educ., **2000**, 77(6), 757 - 759
<http://jchemed.chem.wisc.edu/Journal/Issues/2000/Jun/abs757.html>
- 9. From GC to the NMR: A Simple Semipreparative Gas Chromatography Collection Method Using NMR Tubes**
Andrew R. Bressette, Department of Chemistry, Berry College, Mt. Berry, GA 30149-5016; abressette@berry.edu
J. Chem. Educ., **2001**, 78(3), 366 - 367
<http://jchemed.chem.wisc.edu/Journal/Issues/2001/Mar/abs366.html>

- 10. Introduction to NMR Spectroscopy: Measurement of the Isotopic Ratio of ^{10}B / ^{11}B in NaBH_4**
Guillermo Moyna, Department of Chemistry & Biochemistry. University of the Sciences in Philadelphia
<http://208.7.154.206/gmoyna/principles114/week12.pdf>
- 11. Microscale Synthesis of a Diphenylisoxazoline by a 1,3-Dipolar Cycloaddition**
William B. Martin, Laura J. Kateley,* Dawn C. Wisner, and Catherine A. Brummond,
Department of Chemistry, Lake Forest College, Lake Forest, IL 60045; * kateley@lfc.edu
J. Chem. Educ., **2002**, 79(2), 225–227
<http://www.jce.divched.org/Journal/Issues/2002/Feb/abs225.html>
- 12. Structure and Nuclear Magnetic Resonance. An Experiment for the General Chemistry Laboratory**
Rosa M. Dávila and R. K. Widener, College of Southern Idaho, Twin Falls, ID 83301
J. Chem. Educ. **2002**, 79(8), 997 - 999
<http://jchemed.chem.wisc.edu/Journal/Issues/2002/Aug/abs997.html>
- 13. A General Chemistry Laboratory Theme: Spectroscopic Analysis of Aspirin**
Houston Byrd and Stephen E. O'Donnell, Department of Biology, Chemistry & Mathematics, University of Montevallo, Montevallo, AL 35115
J. Chem. Educ. **2003**, 80(2), 174 - 176
<http://jchemed.chem.wisc.edu/Journal/Issues/2003/Feb/abs174.html>
- 14. The Systematic Identification of Organic Compounds, 8th Edition;**
Ralph L. Shriner, Christine K. F. Hermann, Terence C. Morrill, David Y. Curtin,
Reynold C. Fuson; Wiley; 2003; ISBN 047-121503-1 (hbk.)
<http://www.wiley.com/WileyCDA/WileyTitle/productCd-0471215031.html>
Christine Hermann at Radford University has included many EFT-60 spectra in this edition.
- 15. Multi-Week Synthesis of a Sunscreen Agent for the Organic Chemistry Laboratory**
Gary W. Breton* and Melanie K. Belk, Department of Chemistry, Berry College,
Mount Berry, GA 30149, gbreton@berry.edu
Chem. Educator **2004**, 9(1), 27 - 29
<http://chemeducator.org/bibs/0009001/910027gb.htm>
- 16. The Mosher Method of Determining Enantiomeric Ratios: A Microscale NMR Experiment for Organic Chemistry**
Steve Lee, School of Science and Mathematics, Roosevelt University,
Chicago and Schaumburg, IL
Chem. Educator **2004**, 9(6), 359 - 363
<http://chemeducator.org/bibs/0009006/960359sl.htm>
- 17. Using Microenvironmental Effects to Increase Loading and Stereoselectivity for Polymer Bound NaBH_4 Reagents**
James Blanton, Department of Chemistry, The Citadel, Charleston, SC 29409
blantonj@citadel.edu
J. South Carolina Academy of Science **2004**, 2(1), 30 - 41
<http://faculty.uscupstate.edu/dkferris/SCAS/vol2/using%20microenvironmental.pdf>
- 18. Implementation and Use Of Selective Shaped Pulses on Lower-End NMR Spectrometers**
Daniel Lim and Guillermo Moyna, Department of Chemistry & Biochemistry, University of the Sciences in Philadelphia, 600 South 43rd Street, Philadelphia, PA 19104-4495
Journal of Undergraduate Chemistry Research, **2004**, 3(3), 96 - 102
<http://www.vmi.edu/WorkArea/showcontent.aspx?id=2222>

- 19. Synthesis of variable-sized nanocrystals of Fe₃O₄ with high surface reactivity**
D. Caruntu, G. Caruntu, Y. Chen, C. O'Connor, G. Goloverda and V. Kolesnichenko,
Advanced Materials Research Institute, University of New Orleans, New Orleans, LA 70148,
and Department of Chemistry, Xavier University of Louisiana, New Orleans, LA 70125
Chemistry of Materials, **2004**, 16(25), 5527-5534
<http://pubs.acs.org/cgi-bin/abstract.cgi/cmatex/2004/16/i25/abs/cm0487977.html>
- 20. Instrumental Proficiency Program for Undergraduates**
Duane E. Weisshaar, Gary W. Earl, Milton P. Hanson, Arlen E. Viste, R. Roy Kintner, and
Jetty L. Duffy-Matzner, Department of Chemistry, Augustana College, Sioux Falls, SD 57197
J. Chem. Educ. **2005**, 82(6), 898 - 900
<http://www.jce.divched.org/Journal/Issues/2005/Jun/abs898.html>
- 21. Free Radical Bromination of 2-Methylbutane and Analysis by ¹H NMR Spectroscopy**
Gary W. Breton, Department of Chemistry, Berry College,
Mount Berry, GA 30149, gbreton@berry.edu
Chem. Educator **2005**, 10(4), 298 - 299
<http://www.chemeducator.org/bibs/0010004/1040298gb.htm>
- 22. Titration of Organolithium Reagents: Handling Air and Moisture Sensitive Compounds in an Organic Experiment**
Steve Lee, School of Science and Mathematics, Roosevelt University,
Chicago and Schaumburg, IL
Chem. Educator **2005**, 10(5), 357 - 358
<http://chemeducator.org/bibs/0010005/1050353sl.htm>
- 23. Acid-Catalyzed Isomerization of Carvone to Carvacrol**
Richard A. Kjonaas* and Shawn P. Mattingly, Department of Chemistry,
Indiana State University, Terre Haute, IN 47809; * rkjonaas@indstate.edu
J. Chem. Educ. **2005**, 82(12), 1813 - 1814
<http://jchemed.chem.wisc.edu/Journal/Issues/2005/Dec/abs1813.html>
- 24. Observing Proton Exchange in Aqueous Ethanol with a 60 MHz FT-NMR Spectrometer**
Gregory A. Manley and David Rovnyak, Department of Chemistry,
Bucknell University, Lewisburg PA 17837, drovnyak@bucknell.edu
http://www.facstaff.bucknell.edu/drovnyak/Ethanol-Water_Exp.pdf
- 25. Imidazole as a pH Probe: An NMR Experiment for the General Chemistry Laboratory**
Bruce William J. Hagan Jr.,* Dennis L. Edie, and Linda B. Cooley, School of Mathematics
and Science, College of St. Rose, Albany, NY 12203-1490; *haganw@strose.edu
J. Chem. Educ. **2007**, 84(7), 1188 - 1189
<http://jchemed.chem.wisc.edu/Journal//Issues/2007/Jul/abs1188.html>
- 26. Applying Low Field ¹³C NMR Spectroscopy to Find the Isoelectric Points of Amino Acids**
Jun H. Shin[†], Sabrina Song[†], Yoomi Kim[†], and Gopal Subramaniam^{**}
[†]Department of Chemistry, Queensborough Community College-CUNY, Bayside,
NY 11364; ^{**}Department of Chemistry and Biochemistry, Queens College -CUNY,
Flushing NY 11367, gopal.subramaniam@qc.cuny.edu
Chem. Educator **2007**, 12(4), 282 - 285
<http://chemeducator.org/bibs/0012004/12070282gs.htm>

- 27. Using Ozone in Organic Chemistry Lab: The Ozonolysis of Eugenol**
Bruce M. Branan,* Joshua T. Butcher, and Lawrence R. Olsen, Department of Chemistry, Asbury College, Wilmore, KY 40390; *bbranan@asbury.edu
J. Chem. Educ. **2007**, *84*(12), 1979 - 1981
<http://jchemed.chem.wisc.edu/Journal//Issues/2007/Dec/abs1979.html>
- 28. ACS Symposium Series: Modern Nuclear Magnetic Resonance in Education**
David Rovnyak and Robert A. Stockland (Editors)
Oxford University Press; 2007; ISBN 084-123995-9
<http://www.oup.com/us/catalog/general/subject/Chemistry/PhysicalChemistry/?view=usa&ci=9780841239951>
Six of the 24 chapters discuss the use of EFT spectrometers:
- *Enhancing Undergraduate Pedagogy with NMR across the Curriculum*
Matthew A. Fisher and Daryle H. Fish, pp 8 - 19
 - *Teaching NMR Spectroscopy in a General Education Course for Nonmajors*
Emma W. Goldman and Raymond N. Dominey, pp 48 - 61
 - *Inclusion of NMR Spectroscopy in High School Chemistry: Two Approaches*
Brian Esselman and Donald E. Mencer, pp 77 - 90
 - *Annotated Bibliography: Permanent Magnet Fourier Transform–NMR Applications in the Laboratory*
Amy Abe and Frank B. Contratto, pp 318 - 334
 - *Showcasing 2D NMR Spectroscopy in an Undergraduate Setting: Implementation of HOMO-2D J-Resolved Experiments on Permanent Magnet NMR Systems*
Brian K. Niece and Guillermo Moyna, pp 335 - 349
 - *Fourier Transform NMR in the Chemistry Curriculum: An Integrated Approach Using a Permanent Magnet FT-NMR in Conjunction with High Field NMR Data Files and Computational Chemistry*
Michael J. Collins and Ronald T. Amel, pp 350 - 361
- 29. Neat NMR Spectroscopy for General Chemistry Laboratory**
David E. Alonso and Peter A. Wong
†Department of Chemistry and Biochemistry, Andrews University,
Berrien Springs, MI 49104-0430, alonso@andrews.edu
Chem. Educator **2008**, *13*(4), 234 - 235
<http://chemeducator.org/bibs/0013004/13080234da.htm>
- 30. Qualitative Analysis of Several Amino Acids by COSY and DEPT Using Low-Field NMR: An Undergraduate Biochemistry or Instrumental Methods Laboratory Exercise**
Michelle M. Ivey and Eugene T. Smith
Harriet L. Wilkes Honors College, Florida Atlantic University,
Jupiter, FL 33458, esmith@fau.edu
Chem. Educator **2008**, *13*(5), 307 - 308
<http://chemeducator.org/bibs/0013005/13080307es.htm>
- 31. A Discovery-Based Experiment Involving Rearrangement in the Conversion of Alcohols to Alkyl Halides: Permanent Magnet ¹³C NMR in the First-Semester Organic Chemistry Lab**
Richard A. Kjonaas and Ryand J. F. Tucker, Department of Chemistry, Indiana State University,
Terre Haute, IN 47809
J. Chem. Educ. **2008**, *85*(1), 100 - 101
<http://www.jce.divched.org/Journal/Issues/2008/Jan/abs100.html>

- 32. Peer Mentoring in the General Chemistry and Organic Chemistry Laboratories
The Pinacol Rearrangement: An Exercise in NMR and IR Spectroscopy for
General Chemistry and Organic Chemistry Laboratories**
Caleb A. Arrington, Jameica B. Hill, Ramin Radfar, David M. Whisnant, and Charles
G. Bass Department of Chemistry, Wofford College, Spartanburg, SC 29303-3663
J. Chem. Educ. **2008**, *85*(2), 288 - 290
<http://www.jce.divched.org/Journal/Issues/2008/Feb/abs288.html>
- 33. Synthesis and Symmetry of Two Cobalt(III) Complexes with Tetradentate
Ligands: An Advanced Inorganic Chemistry Experiment**
Mark McClure, Department of Chemistry and Physics, The University of North Carolina
at Pembroke, Pembroke, NC 28372-1510
J. Chem. Educ. **2008**, *85*(3), 420 - 421
<http://www.jce.divched.org/Journal/Issues/2008/Mar/abs420.html>
- 34. A Nitration Reaction Puzzle for the Organic Chemistry Laboratory**
Milton J. Wieder and Russell Barrows, Department of Chemistry, Metropolitan State
College of Denver, Denver, CO 80217-3362
J. Chem. Educ. **2008**, *85*(4), 549 - 551
<http://www.jce.divched.org/Journal/Issues/2008/Apr/abs549.html>
- 35. Acid-Catalyzed Enolization of β -Tetralone**
Brahmadeo Dewprashad, Anthony Nesturi, and Joel Urena, Department of Science,
BMCC, City University of New York, NY 10007
J. Chem. Educ. **2008**, *85*(6), 829 - 831
<http://www.jce.divched.org/Journal/Issues/2008/Jun/abs829.html>
- 36. Polymer-Supported Reagents and ^1H - ^{19}F NMR Couplings: The
Synthesis of 2-Fluoroacetophenone**
Nicola Pohl and Kimberly Schwarz, Department of Chemistry, Iowa State University,
Ames, IA 50011-3111
J. Chem. Educ. **2008**, *85*(6), 834 - 835
<http://www.jce.divched.org/Journal/Issues/2008/Jun/abs834.html>

urls checked 3 May 2009