



John C. Warner

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John is the recipient of the 2014 Perkin Medal, widely acknowledged as the highest honor in American Industrial Chemistry. He received his BS in Chemistry from UMASS Boston, and his PhD in Chemistry from Princeton University. After working at the Polaroid Corporation for nearly a decade, he then served as tenured full professor at UMASS Boston and Lowell (Chemistry and Plastics Engineering). In 2007 he founded the Warner Babcock Institute for Green Chemistry, LLC (A research organization developing green chemistry technologies) where he serves as President and Chief Technology Officer, and Beyond Benign (a non-profit dedicated to sustainability and green chemistry education). He is one of the founders of the field of Green Chemistry, co-authoring the defining text Green Chemistry: Theory and Practice with Paul Anastas. He has published over 250 patents, papers and books. His recent work in the fields of pharmaceuticals, personal care products, solar energy and construction and paving materials are examples of how green chemistry principles can be immediately incorporated into commercially relevant applications. Warner received The 2004 Presidential Award for Excellence in Science Mentoring (considered one of the highest awards for US academia), the American Institute of Chemistry's Northeast Division's Distinguished Chemist of the Year for 2002 and the Council of Science Society President's 2008 Leadership award. Warner was named by ICIS as one of the most influential people impacting the global chemical industries. In 2011 he was elected a Fellow of the American Chemical Society and named one of "25 Visionaries Changing the World" by Utne Reade

August 2007 - Present



Warner Babcock Institute for Green Chemistry, LLC
President and Chief Technology Officer

Beyond Benign
President

January 1996 – August 2007



University of Massachusetts
Director, Center for Green Chemistry, Lowell [2004-2007]
Professor, Plastics Engineering, Lowell [2004-2007]
Professor, Community Health and Sustainability, Lowell [2004-2006]
Director, Green Chemistry PhD Program, Boston [2001-2004]
Chair, Department of Chemistry, Boston [2001-2003]
Director, Center for Green Chemistry, Boston [2000-2004]
Director, Biochemistry Major, Boston [1999-2001]
Professor (Tenured), Department of Chemistry, Boston [2000-2004]
Associate Professor, Department of Chemistry, Boston [1996-2000]

June 1988 - January 1996



Polaroid Corporation, Cambridge, MA
Sr. Research Scientist/Research Group Leader

September 1984 – May 1988



Princeton University, Princeton, NJ
Ph.D. (Organic Chemistry) June 1988
MA (Organic Chemistry) January 1986
Research Advisor: Edward C. Taylor

September 1980 – May 1984



The University of Massachusetts, Boston, MA
B. Sc. (Chemistry) May 1984
Research Advisor: Jean-Pierre Anselme

Selected Honors and Awards:

"The Perkin Medal" Chemistry Industry Society **2014**
 "Fellow of the Royal Society" Elected **2014**.
 "Henry Maso Award" Society of Cosmetic Chemistry, **2012**
 "One of 25 Visionaries Changing the World", Utne Reader, **2012**
 "Fellow of the American Chemical Society" Elected **2011**.
 "Environmental Merit Award" United States Environmental Protection Agency, **2011**
 "One of the Most Influential People in the Chemical Industries" ICIS **2008**
 "Award for Outstanding Leadership" Council of Science Society Presidents, **2008**
 "Presidential Award for Excellence in Science Mentoring" NSF and President George W. Bush, **2004**
 "Outstanding Environmental Innovation" Environmental Business Council of New England, **2004**.
 "Outstanding Service to Nursing Award", Sigma Theta Tau, **2004**
 "College and University Health and Safety Award" ACS Division of Chemical Health and Safety, **2004**
 "Distinguished Chemist of the Year", American Institute of Chemists, New England Chapter, **2002**
 "UMASS President's Public Service Award", University of Massachusetts, **2002**
 "Reinventing Government", National Performance Review, from Vice President Al Gore, **1997**
 "Metropolitan Boston's Best and Brightest College Seniors", Celebrity Magazine, **1984**
 "John Philip Sousa Award" and "Class Musician", Quincy High School, **1980**

Professional Responsibilities and Memberships:

Editor, Green Chemistry Letters and Reviews
 Associate Editor, Organic Preparations and Procedures International
 The Dow Chemical Company, Sustainability External Advisory Council
 Biogen, Sustainability Advisory Panel
 Apple Computers, Chemicals and Green Chemistry Advisory Board
 Founding Stakeholder, Presidential Green Chemistry Challenge
 Fellow, American Chemical Society
 Fellow, Royal Society of Chemistry
 American Institute of Chemical Engineers
 American Association for the Advancement of Science
 Society of Environmental Toxicology and Chemistry

University Classes Taught:

Intro Chemistry I & II	Chemical Dynamics
Organic Chemistry I & II	Chemical Structure
Biochemistry I & II	Chemical Synthesis
Physiological Chemistry I & II	Experimental Conceptualization
Nutrition	Introduction to Green Chemistry
Medicinal Chemistry	Principles of Green Chemistry
Polymer Chemistry	Mechanistic Toxicology
Biophysical Chemistry	Toxicology and Env. Health Sciences for Chemists
Chemistry and the Environment	Sustainable Materials Design

Personal:

Wife: Dr. Amy Cannon Warner
 Children: Joanna, Tom, John-John (Deceased), Libby, Amy and Natalie
 Activities: Occasional Runner (Marathon, Half Marathon, 10K)
 Occasional Musician (Keyboards, Guitar, Woodwinds, Percussion)
 Occasional Gamer (World of Warcraft)
 Occasional Author (Green Chemistry: Theory and Practice 1998, The Missing Elements 2016)

Patents:

- "Thermal Recording Media" Chakar, Fadi Selim; Warner, John Charles; Whitfield, Justin Robert; Lugus, Michelle Wanch Li; Banerjee, Deboshri, US Pat. Appl. US 20150165806. Published June 18, 2015. PCT Int. Appl. WO 2015094630 Published June 25, 2015.
- "Metal Complexes and Methods of Treatment" Warner, John C., Chreuku, Srinivasa R., Hari, Anitha; Norman, James J. PCT Int. Appl. WO 2015070177 Published May 14, 2015.
- "Novel Asphalt Binder Additive Compositions and Methods of Use" Warner, John C., Muollo, Laura R.; Walker, Rowan L., Bianchini, J. R. PCT Int. Appl. WO 2015070180 Published May 14, 2015.
- "Bromine-Free Fire Retardant (FR) Agents Capable of Using a Cyclization Mechanism" Warner, John; Tang, Pui-In; Stewart, Amie; Kelly, Colleen. PCT Int. Appl. WO 2015050542. Published April 9, 2015.
- "Formulation and Processes for Hair Coloring" Warner, John C.; Muollo, Laura; Stewart, Amie. PCT Int. Appl. WO 2015057254. Filed January 25, 2015. Published April 23, 2015.
- "Rilyazine derivatives and compositions for the treatment of cancer" Warner, John C.; Gladding, Jeffery A.; Gero, Thomas W.; Cheruku, Srinivasa R. PCT Int. Appl. WO 2015034785. Filed August 29, 2014. Published March 12, 2015.
- "Preparation of Rilyazine Derivatives Useful in Treatment of Cancer" Warner, John C.; Gladding, Jeffery A.; Gero, Thomas W.; Cheruku, Srinivasa R. US Pat. Appl. US 20150065510. Filed August 29, 2014. Published March 5, 2015.
- "Structured endothermic fire-retardant agents encapsulated in thermally-sensitive material and fire-retardant composition comprising polymer matrix and microcapsules incorporating fire-retardant agents" Warner, John; Tang, Pui-Ln; Stewart, Amie; Kelly, Colleen. PCT Int. Appl. WO 2015026353. Filed August 22, 2013. Published February 26, 2015.
- "Thermal Imaging" Warner, John C. US Pat. Appl. US 20140371064. Filed June 18, 2013. Published December 18, 2014.
- "Flexible Microreactors" Warner, John C. US Pat. Appl. US 20140369901. Filed June 18, 2013. Published December 18, 2014.
- "Method for the recovery of lithium cobalt oxide from lithium ion batteries" Poe, Sarah L.; Paradise, Christopher L.; Muollo, Laura R.; Pal, Reshma; Warner, John C.; Korzenski, Michael B. US Pat. Appl. US 20140306162. Filed June 19, 2012. Published October 16, 2014.
- "Formulation and Processes for Hair Coloring" Warner, John C.; Muollo, Laura; Stewart, Amie. US Patent 8,828,100. Filed Oct. 14, 2013. Published September 9, 2014.
- "Dihydro-6-Azaphenylene Derivatives for the Treatment of CNS, Oncological Diseases and Related Disorders" Warner, John C.; Nguyen, Dieu; Gladding, Jeffery A.; Cheruku, Srinivasa R.; Loebelenz, Jean R.; Norman, James J.; Thota, Sambaiiah; Lee, John W.; Rosenfeld, Craig. US Pat. Appl. US 20140094487. Filed September 27, 2013. Published April 3, 2014. PCT Int. Appl. WO 2014052906. Filed September 27, 2013. Published April 3, 2014. CA 2886749. Filed September 27, 2013. Published April 3, 2014.
- "Sustainable process for reclaiming precious metals and base metals from electronic waste" Korzenski, Michael B.; Jiang, Ping; Norman, James; Warner, John C.; Ingalls, Laura; Gnanamgari, Dinakar; Strickler, Fred; Mendum, Ted. US Pat. Appl. US 20130336857. Filed August 19, 2011. Published December 19, 2013.
- "Protective barriers for electronic devices" Warner, John C.; Viola, Michael S. US Patent 8,581,246. Filed September 2, 2011. Published November 12, 2013.
- "Dye-Sensitized Solar Cell and Corrosion Resistant Electrode Stack Therein" Plavisch, Lauren; Ricci, Melissa; Warner, John C. US Pat. Appl. US 20130263921. Filed April 10, 2012. Published October 10, 2013.
- "Solar Cells with a Colorant Sensitized Semiconductor Layer Prepared from a Presensitized Semiconductor Composition" Warner, John C.; Viola, Michael S.; Barykina, Olga; Dua, Vineet. US Pat. Appl. US 20130180587. Filed January 17, 2012. Published July 18, 2013.
- "Dye Formulation for Fabricating Dye Sensitized Electronic Devices" Warner, John C.; Viola, Michael S., US Pat. Appl. US 20130074935. Filed September 23, 2011. Published March 28, 2013.
- "Sustainable process for reclaiming precious metals and base metals from electronic waste" Korzenski, Michael B.; Jiang, Ping; Norman, James; Warner, John C.; Ingalls, Laura; Gnanamgari, Dinakar; Strickler, Fred; Mendum, Ted. PCT Int. Appl. WO 2012024603. Filed August 19, 2011. Published February 23, 2013. CN 103249849. Filed August 19, 2011. Published August 14, 2013. EP 2606158. Filed August 19, 2011. Published June 26, 2013.
- "Formulation and method for hair dyeing" Warner, John C.; Viola, Michael S. US Patent 8,366,791. Filed September 2, 2011. Published February 5, 2013.
- "Method for the recovery of lithium cobalt oxide from lithium ion batteries" Poe, Sarah L.; Paradise, Christopher L.; Muollo, Laura R.; Pal, Reshma; Warner, John C.; Korzenski, Michael B. PCT Int. Appl. WO 2012177620. Filed June 19, 2012. Published December 27, 2012. CN 103620861. Filed June 19, 2012. Published March 5, 2014. EP 2724413. Filed June 19, 2012. Published April 30, 2014.
- "Coloring Composition Containing L-DOPA and L-arginine and Forming a Non-covalent Derivatization Complex" Warner, John C.; Stoler, Emily J PCT Int. Appl. WO 2012067868. Filed November 7, 2011. Published May 24, 2012.
- "Coloring Composition Containing L-DOPA and L-arginine and Forming a Non-covalent Derivatization Complex" Warner, John C.; Stoler, Emily J US Patent 8,118,880. Filed November 15, 2010. Published February 21, 2012.
- "Hair Coloring Composition Containing an Aromatic Compound and an Initiator" Warner, John C.; Stoler, Emily J PCT Int. Appl. WO 2011060354. Filed November 15, 2010. Published November 3, 2011. EP Application 2501374. Filed November 15, 2010. Published September 26, 2012.

- "Systems and Methods for Preparing a Metal Oxide Based Anode for Dye-Sensitized Solar Cells" Warner, John C.; Van Benschoten, Helen; Cannon, Amy US Pat. Appl. US 20110232742. Filed Feb. 17, 2011. Published September 29, 2011.
- "Semiconductor Compositions for Dye-Sensitized Solar Cells" Warner, John C.; Vanbenschoten, Helen; Cannon, Amy US Pat. Appl. US 20110232717. Filed February 17, 2011. Published September 29, 2011.
- "Additives for Solar Cell Semiconductors" Warner, John C. US Pat. Appl. US 20110226306. Filed Feb. 17, 2011. Published September 22, 2011.
- "Systems and Methods for Preparing Components of Photovoltaic Cells" Warner, John C.; Van Benschoten, Helen; Cannon, Amy PCT Int. Appl. WO 2011103494. Filed February 18, 2011. Published August 25, 2011.
- "Semiconductor Compositions for Dye-Sensitized Solar Cells" Warner, John C.; Vanbenschoten, Helen; Cannon, Amy PCT Int. Appl. WO 2011103503. Filed February 18, 2011. Published August 25, 2011.
- "Additives for Solar Cell Semiconductors" Warner, John C. PCT Int. Appl. WO 2011103506. Filed February 18, 2011. Published August 25, 2011.
- "Coloring Composition Containing an Aromatic Compound and Tyrosinase" Warner, John C.; Stoler, Emily J PCT Int. Appl. WO 2011060351. Filed November 15, 2010. Published May 19, 2011. CN Application 102695495. Filed November 15, 2010. Published September 26, 2012. EP Application 2501374. Filed November 15, 2010. Published September 26, 2012.
- "Non-fluoride containing composition for removal of polymers and other organic material from a surface" Korzenski, Michael B.; Jiang, Ping; Warner, John C.; Mendum, Ted; Lugus, Michelle; Whitfield, Justin; Vanbenschoten, Helen; Payne, Makonnen PCT Int. Appl. WO 2010091045. Filed Feb 3, 2010. Published August 12, 2010.
- "Photoinduced Copolymer Functionalized Substrates" Warner, John C.; Cannon, Amy S.; Dye, Kevin PCT Int. Appl. WO 2007139810. Filed May 23, 2007. Published December 6, 2007.
- "Methods of solubilizing and recycling biodegradable polymers containing photoreactive moieties using irradiation" Warner, John C.; Morelli, Alessandra; Ku, Man Ching US Patent 6,946,284. Filed November 15, 2002. Published September 20, 2005.
- "Photoreactive Polymers and Devices for use in Hair Treatments" Warner, John C.; Cannon, Amy S.; Raudys, Jennifer; Undurti, Arundhati; PCT Int. Appl. WO 2004058187. Filed December 22, 2003. Published December 23, 2004. CA 2510162. Filed December 22, 2003. Published July 15, 2004. EP 1575537. Filed December 22, 2003. Published September 21, 2005.
- "Metal Oxide Films" Warner, John C.; Morelli, Alessandra US Pat. Appl. US 20030054207. Filed July 17, 2002. Published March 20, 2003. PCT Int. Appl. WO 2003008079. Filed July 17, 2002. Published January 30, 2003.
- "Support containing lewis acid, dye precursor, acidic material and thermal stabilizer." Dombrowski, Edward J.; Guarrera, Donna J.; Jones, Robert L.; Mischke, Mark R.; Warner, John C.; Yang, Jiyue US Patent 5,750,464. Filed April 22, 1997. Published May 12, 1998.
- "Thermographic Recording Films." Dombrowski, Edward J.; Jones, Robert L.; Warner, John C.; Yang, Jiyue US Patent 5,750,463. Filed April 22, 1997. Published May 12, 1998.
- "Acid-Catalyzed Thermal Decomposition of Secondary Acid Generator and Formation of Second Acid; Copper Compound and Reactive Material Used to Decompose Superacid Precursor" Marshall, John L.; Baker, Rita Shon S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C. US Patent 5,741,630. Filed April 25, 1994. Published April 21, 1998.
- "Copolymers having pendant functional thymine groups" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C. US Patent 5,708,106. Filed May 3, 1996. Published January 13, 1998.
- "Photograph Development" Guarrera, Donna J.; Mattucci, Neil C.; Mehta, Avinash C.; Taylor, Lloyd D.; Warner, John C. US Patent 5,705,312. Filed Nov. 25, 1996. Published January 6, 1998.
- "Photograph System" Guarrera, Donna J.; Mattucci, Neil C.; Mehta, Avinash C.; Taylor, Lloyd D.; Warner, John C. PCT Int. Appl. WO 1997029405. Filed January 21, 1997. August 14, 1997. DE 69701493. Filed January 21, 1997. Published April 27, 2000. EP 0820607. Filed January 21, 1997. Published January 28, 1998.
- "Images by Exposure to Actinic Radiation; Solvent Removal of Non-Exposed Areas" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C. US Patent 5,616,451. Filed May 24, 1995. Published April 1, 1997.
- "Process for Fixing an Image, and Medium for Use Therein" Ehret, Anne; Marshall, John L.; Baker, Rita Shon S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C. US Patent 5,582,956. Filed April 28, 1994. Published December 10, 1996.
- "Low-Volatility, Substituted 2-Phenyl-4,6-bis[Halomethyl]-1,3,5-triazine for Lithographic Printing Plates." Fitzgerald, Maurice J.; Kearney, Frederick R.; Liang, Rong-Chang; Schwarzel, William C.; Guarrera, Donna, J.; Hardin, John M.; Warner, John C. PCT Int. Appl. WO 1996034315. Filed April 19, 1996. Published October 31, 1996. CA 2189459. Filed April 19, 1996. Published October 31, 1996. DE 69609136. Filed April 19, 1996. Published August 10, 2000. EP 0767932. Filed April 19, 1996. Published April 16, 1997.
- "Low-Volatility, Substituted 2-Phenyl-4,6-bis[Halomethyl]-1,3,5-triazine for Lithographic Printing Plate Preparation" Fitzgerald, Maurice J.; Kearney, Frederick R.; Liang, Rong-Chang; Schwarzel, William C.; Guarrera, Donna, J.; Hardin, John M.; Warner, John C. US Patent 5,561,029. Filed April 28, 1995. Published October 1, 1996.
- "Vinylbenzyl Thymine Monomers and Polymers and Products Prepared from Same" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C. PCT Int. Appl. WO 1995031755. Filed May 10, 1995. Published November 23, 1995. CA 2185144. Filed May 10, 1995. Published November 23, 1995. EP 0759193. Filed May 10, 1995. Published February 26, 1997. DE 69504652. Filed May 10, 1995. Published October 15, 1998.
- "Process for Fixing an Image" Ehret, Anne; Marshall, John L.; Baker, Rita Shon S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C. PCT Int. Appl. WO 95029067. Filed April 25, 1995. Published November 2, 1995. CA 2186514. Filed

April 25, 1995. Published November 2, 1995. DE 69506396. Filed April 25, 1995. Published January 14, 1999. EP 0757628. Filed April 25, 1995. Published February 12, 1997.

- "Vinylbenzyl Thymine Monomers and their use in photoresists" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C. US Patent 5,455,349. Filed May 13, 1994. Published October 3, 1995.
- "Imaging Medium and Process." Fehervari, Agota F.; Gaudiana, Russell A.; Kolb, Eric S.; Mehta, Parag G.; Taylor, Lloyd D.; Warner, John C. US Patent 5,424,268. Filed May 13, 1994. Published June 13, 1995.
- "Thermally-Processable Image Recording Materials Including Substituted Purine Compounds." Ford, Maureen F.; Guarrera, Donna J.; Mischke, Mark M.; Pai, Ramdas; Warner, John C. US Patent 5,411,929. Filed June 30, 1994. Published May 2, 1995.
- "Copolymeric Mordants and Photographic Products and Processes Containing Them" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C. US Patent 5,395,731. Filed May 13, 1994. Published March 7, 1995.
- "Process and Composition for Use in Photographic Materials Containing Hydroquinones." Taylor, Lloyd D.; Warner, John C. US Patent 5,338,644. Filed December 23, 1992. Published August 16, 1994.
- "Process and Composition for Use in Photographic Materials Containing Hydroquinones." Taylor, Lloyd D.; Warner, John C. US Patent 5,177,262. Filed July 19, 1991, Published January 5, 1993. EP 0523470. Filed July 3, 1992, Published February 3, 1993. CA 2070450. Filed June 4, 1992, Published January 20, 1993. DE 69218312. Filed July 3, 1992, Published April 24, 1997. JP 06230540. Filed July 16, 1992.

Publications:

- "Where We Should Focus Green Chemistry Efforts", Warner, John C., *Aldrichimica Acta* 2015, 48(1) 29.
- "Noncovalent Derivatization: A Laboratory Experiment for Understanding the Principles of Molecular Recognition and Self-Assembly through Phase Behavior" Cannon, Amy S.; Warner, John C.; Koraym, Smaa A.; Marteel-Parrish, Anne E., *J. Chem. Ed.* 2014 91(9), 1486-1490.
- "Designing endocrine disruption out of the next generation of chemicals", Schug, T. T.; Abagyan, R.; Blumberg, B.; Collins, T. J.; Crews, D.; DeFur, P. L.; Dickerson, S. M.; Edwards, T. M.; Gore, A. C.; Guillette, L. J.; Warner, John C., *Green Chemistry* 2013, 15(1), 181-198.
- "Green Chemistry and The Pharmaceutical Industry: The Myths and Opportunities" Cannon, Amy S.; Pont, Joseph L.; Warner, John C. in "Green Techniques for Organic Synthesis and Medicinal Chemistry" Eds: Zhang, W. and Cue, B., John Wiley & Sons 2012.
- "The Science of Green Chemistry and its Role in Educational Reform" Cannon, Amy S.; Warner, John C., *New Solutions* 2011, 21(3), 499-517.
- "Concentration of Bisphenol A in Thermal Paper" Mendum, Ted; Stoler, Emily; Van Benschoten, Helen; Warner, John C. *Green Chemistry Letters and Reviews* 2011, 4(1), 81-86.
- "Core-shell Thymine Containing Polymeric Micelle System: Study of Controlled Release of Riboflavin", Saito, Kei; Warner, John C., *Green Chemistry Letters and Reviews*, 2009, 2(1-2), 71-76.
- "The Twelve Principles of Green Chemistry" Jessup, Phillip J.; Trakhtenberg, Sofia; Warner, John C., in "Innovations in Industrial and Engineering Chemistry: A Century of Achievements and Prospects for the New Millennium" Eds. Flank, William H.; Abraham, Martin A.; Matthews, Michael A, *ACS Symposium Series # 1000*, 2009, 12, 401-436.
- "K-12 Outreach and Science Literacy Through Green Chemistry" Cannon, Amy S.; Warner, John C. in "Green Chemistry Education: Changing the Course of Chemistry" Ed. Levy, Irv *ACS Symposium Series*, 2009, 167-185.
- "Linking Hazard Reduction to Molecular Design: Teaching Green Chemical Design" Anastas, Nicholas; Warner, John C. in "Green Chemistry Education: Changing the Course of Chemistry" Ed. Levy, Irv *ACS Symposium Series*, 2009, 117-136.
- "Green Chemistry: Foundations in Cosmetic Sciences" Cannon, Amy S.; Warner, John C. in *Global Regulatory Issues for the Cosmetics Industry*, Vol. 2, Lintner, K., Ed., William Andrew, 2009, 1-16.
- "Green Chemistry Status and Future" Warner, John C. *Green Chemistry Letters and Reviews*, 2009, 2(1-2), 1.
- "Photosensitization of Bioinspired Thymine Containing Polymers" Martino, Debora M.; Reyna, Dalila; Estenoz, Diana A.; Trakhtenberg, Sofia; Warner ; John C. *J. Phys. Chem.* 2008, 112(21). 4786-4792.
- "The Natural Evolution of Green Chemistry" Warner, John C. *Green Chemistry Letters and Reviews*, 2007, 2(1), 1.
- "Influence of pH and Salt on the Photocrosslinking in Polyelectrolyte Thymine-Containing Films" Trakhtenberg, Sofia; Kumar, Ramya; Bianchini, Jason; Thor, Savin; Martino, Deborah; Warner, John C. *J. Macr. Sci. Part A* 2007, 44(12) 1311-1315.
- "The Effect of pH on the Viscosity of Titanium Dioxide Aqueous Dispersions with Dicarboxylic Acids", Johnson ; Abby M., Trakhtenberg , Sofia; Cannon, Amy S.; Warner, John C. *J. Phys. Chem.* 2007, 111 8139-8146.
- "Entropic Control of Processes and Materials" Trakhtenberg, Sofia; Warner, John C. *Chem. Reviews* 2007, 107(6) 2174-2182.
- "Non-Catalytic Photoinduced Immobilization Processes in Polymer Films" Trakhtenberg, S.; Cannon, A. S.; Warner, J. C. in "Thin Films and Nanostructures: Physico-Chemical Phenomena in Thin Films and at Solid Surfaces" Ed. by L.I. Trakhtenberg, S.H. Lin and O.J. Ilegbusi, Elsevier 2007 34, 665-695.
- "Core-bound Polymeric Micellar System Based on Photocrosslinking of Thymine" Saito, Kei; Ingalls, Laura; Lee, Jun; Warner, John C. *Chem. Commun.* 2007 2503-2505.
- "Thymine Based Water Soluble Phototripolymers: Their Preparation and Synthesis" Bianchini, Jason R.; Saito, Kei; Balin, Taylor B.; Dua, Vineet; Warner, John C. *J. Polymer Sci., Part A: Polymer Chem.* 2007 45, 1296-1303.
- "The Effects of Irradiation Dose and of Photopolymer Composition on the Dissolution of Entrapped Dyes" Kiarie, Cecilia; Jimenez-Ruiz, Johana; Pheng, Kanika; Trakhtenberg, Sofia; Warner, John C. *J. Macr. Sci.* 2006 43(12), 1965-1974.
- "Entropic Control in Green Chemistry and Materials Design" Warner, John C. 2006 *Pure and Appl. Chem.* 2006 78(11), 2035-2041.
- "Bacteriostatic Polymer Film Immobilization" El-Hayek, Rami; Warner, John C. *J. Bio. Mat. Res.* 2006 79A(4), 874-881.
- "Core-bound nano micelles based on hydrogen bonding and photocrosslinking of thymine." Saito, Kei; Ingalls, Laura; Warner, John C. *Polymer Preprints* 2006, 47, 829-830.
- "Effect of Dye Additives on Photodimerization of Thymine Pendant Groups in Water-Soluble Photoresist Polymers" Yu, Catherine; Trakhtenberg, Sofia; Cain, Timothy E.; Warner, John C. *Journal of Polymers and the Environment.* 2006 14(2), 131-134.
- "Green Chemistry and Sustainable Materials Design" Warner, John C. *Society of Cosmetic Chemists Annual Scientific Seminar Proceedings*, Boston, MA 2006, 44-4.
- "Water Soluble Photocrosslinking Materials in Cosmetics" Cannon, Amy S.; Warner, John C.; Saito, Kei; Trakhtenberg, Sofia; Whitfield, Justin. *Society of Cosmetic Chemists Annual Scientific Seminar Proceedings*, Boston, MA 2006, 46-47.
- "Spectroscopic and Microscopic Analysis of Photocrosslinked Vinylbenzylthymine (VBT) Copolymers for Photoresist Applications" Trakhtenberg, Sofia; Warner, John C.; Nagarajana, Ramaswamy; Bruno, Ferdinando F.; Samuelson, Lynne A.; Kumar, Jayant *Chem. Mater.* 2006, 18, 2873-2878.

- "The Low Temperature Processing of Titanium Dioxide Films by the Addition of Trimesic Acid" Cannon, Amy S.; Guarrera, Donna J.; Morelli, Alessandra; Pressler, Whitney; Warner, John C. *J. Sol Gel Sci.* 2005 36 157-162.
- "(4-Vinylbenzyl)cinnamate: A Useful Monomer for Water-Soluble Photopolymers" Cannon, Amy S.; Warner, John C., *J. Macr. Sci.* 2005 A42 1507-1514.
- "Methylene Blue Adsorption on Thymine Based Polyvinylphenylsulfonate Films" Kiarie, Cecilia; Bianchini, Jason; Trakhtenberg, Sofia; Warner, John C. *J. Macr. Sci.* 2005 A42 1489-1496.
- "Enzymatic Reversal of Polymeric Thymine Photocrosslinking with E. coli DNA Photolyase" Whitfield, Justin; Morelli, Alessandra and Warner, John C., *J. Macr. Sci.* 2005 A42 1541-1546.
- "Photocrosslinked Immobilization of Polyelectrolytes for Enzymatic Construction of Conductive Nanocomposites" Trakhtenberg, Sofia; Hangun-Balkir, Yelda; Warner, John C.; Bruno, Ferdinando; Kumar, Jayant; Nagarajan, Ramaswamy; Samuelson' Lynne A. *J. Am. Chem. Soc.* 2005 127, 9100-9104
- "Noncovalent Derivatives of Hydroquinone: Complexes with Trigonal Planar Tris-(N,N-Dialkyl)trimesamides" Cannon, Amy S.; Foxman, Bruce M.; Guarrera, Donna J.; Warner, John C. *Crystal Growth and Design* 2005, 5(2), 407-411.
- "The Incorporation of Hazard Reduction as a Chemical Design Criterion in Green Chemistry" Anastas, Nicholas; Warner, John C. *J. Chem. Health and Safety* 2005, 12(2), 9-13.
- "Structure Activity Relationship of Organic Acids in Titanium Dioxide Nanoparticle Dispersions" Cannon, Amy S.; Jian, Tian Ying, Wang, Jun; Warner, John C. *Chem. Mater.* 2004 16, 5138-5140.
- "Synthesis of Tetrahedral Carboxamide Hydrogen Bond Acceptors" Cannon, Amy S.; Jian, Tian Ying, Wang, Jun; Warner, John C. *Organic Prep. And Proc. Int.* 2004 36(4), 353-359.
- "Green Chemistry" Warner, John C.; Cannon, Amy S.; Dye, Kevin, *J. Environmental Impact Assessment*, 2004 24 775-799.
- "Asking the Right Questions" Warner, John C. *J. Green Chem.* 2004 6, G27.
- "Synthesis of Phenylenebis(methylene)-3-carbamoylpyridinium Bromides" Zhou, Feng; Wang, Chi-Hua; Warner, John C. *Organic Prep. And Proc. Int.* 2004, 36(2), 173-177.
- "Introductory Overview of Green Chemistry" Pyers, John E.; Whitfield, Justin; Warner, John C. *Proceedings of First Indo-US Workshop on Green Chemistry*, Delhi, India, (November 17-19, 2003), 2005, 10-13.
- "Noncovalent Derivatization: Green Chemistry Applications of Crystal Engineering." Cannon, Amy S.; Warner, John C. *Crystal Growth and Design* 2002, 2(4) 255-257.
- "Thymine-Containing Styrene Polymers as Environmentally Benign Photoresists" Lloyd-Kindstrand, Lisa; Warner, John C. *Biopolymers*, 2002, 8, 165-174.
- "Aqueous Photoresists", Warner, John C. in *Greener Approaches to Undergraduate Chemistry Experiments*, Kirchhoff, Mary; Ryan, Mary Ann, Eds., American Chemical Society, 2002, 45-50.
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