

John C. Warner

President & Chief Technology Officer
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John is the recipient of the 2014 Perkin Medal, widely acknowledged as the highest honor in American Industrial Chemistry, and was named a 2016 AAAS-Lemelson Invention Ambassador. 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 nearly 300 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 science education), 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 Reader.

August 2007 - Present



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



Beyond Benign
President



Harvard Extension School
Adjunct, Green Chemistry

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



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

Selected Honors and Awards:

"Award for Circular Economy Leadership Finalist" - Fortune and Accenture Strategy **2017**
 "Harry & Carol Mosher Award" – ACS Silicon Valley **2016**
 "AAAS-Lemelson Invention Ambassador" AAAS and Lemelson Foundation **2016**
 "Eminent Scientist Lecture" American Chemical Society **2015**
 "The Perkin Medal" Chemistry Industry Society **2014**
 "Fellow of the Royal Society of Chemistry" 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
 Editorial Board, Crystal Growth and Design
 Graduate School Leadership Council, Princeton University
 The Circular Economy Awards Panel, World Economic Forum
 Apple Computers, Chair, Green Chemistry and Sustainability Advisory Board
 The Dow Chemical Company, Sustainability External Advisory Council
 Biogen, Sustainability Advisory Panel
 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 2017)

Representative Inventions:



Potential ALS drug

Potential Colon, lung and pancreatic cancer drug



Potential cytostat cancer drug

Potential alzheimer's disease drug



CHILLMAW

Potential diabetes drug

Sustainable asphalt pavement



DELTA-S



Formaldehyde free wood adhesive

Nontoxic hair color restoration



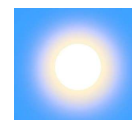
Ocean plastics processing

Fluorine free textile and fabric shaping



BPA-free thermal imaging technology

Solar energy technologies



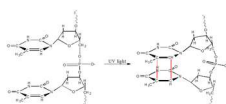
Water harvesting technology

Bromine free flame retardants



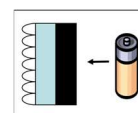
Lithium battery recycling technology

Precious metal recovery from E-Waste



Thymine based photoresists

Arsenic removal from drinking water



Dozens of imaging inventions for Polaroid

Patents:

Medicine:

- "Preparation of 2-phenylbenzofuran derivatives for the treatment of central nervous system disorders and other disorders" Warner, John C.; Cheruku, Srinivasa R.; Gladding, Jeffery A. PCT Int. Appl. WO 2017083488 Published May 18, 2017.
- "Preparation of Dipyrindyl Thiosemicarbazones as Anticancer Agents" Warner, John C.; Gladding, Jeffery A.; Cheryuku, Srinivasa R. PCT Int. Appl. WO 2017058748. Published April 6, 2017.
- "Method for the preparation of n-acetyl cysteine amide" Warner, John C.; Cheruku, Srinavasa; Thota, Sambaiah; Lee, John W. PCT Int. Appl. WO 2015148880 Published October 01, 2015.
- "Metal Complexes and Methods of Treatment" Warner, John C., Chreuku, Srinivasa R., Hari, Anitha; Norman, James J. PCT Int. Appl. WO 2015070177 Filed November 10, 2014. Published May 14, 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.
- "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, Sambaiah; 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.

Construction Materials:

- "Lignocellulosic composites and methods of making same" Warner, John C.; Whitfield, Justin R.; Gladding, Jeffery A.; Allen, Richard M. PCT Int. Appl. WO 2016191521 Published December 01, 2016.
- "Compositions and methods for compatibilizing fluorinated materials in nonfluorinated solvent systems" Warner, John C.; Loebelenz, Jean R.; Kariuki, Peter N.; Bwambok, David K. US. Pat. Appl. Publ. US 20160304641 Published October 20, 2016.
- "Functionalized Fluorinated Polyhedral Oligomeric Silesquioxane (F-POSS) monomer compositions and use of TheroF" Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow, PCT Int. Appl. WO 2016145060 Published September 15, 2016.
- "Process for Preparing Functionalized F-Poss Monomers" Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow, PCT Int. Appl. WO 2016134207. Published August 25, 2016.
- "Synthetic blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials" Warner, John C. US Pat. Appl. US 20160096853. Published April 7, 2016.
- "Asphalt Binder Additive Compositions and Related Materials" Warner, John C., Muollo, Laura R.; Walker, Rowan L., Bianchini, J. R. PCT Int. Appl. WO 2015070180. Filed November 10, 2014. Published May 14, 2015.
- "Wood Composites Containing Oleaginous Microbial Biomass" Braksmayer, Diza; McKee, Adrienne; Janssen, Giselle; Krevor, David H.; Warner, John C.; Whitfield, Justin R.; Dorogy, William E., Jr.; Kearney, Frederick Richard; Stoler, Emily J PCT Int. Appl. WO 2015196134. Filed Jun 20, 2014. Published Dec 23, 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. Filed October 2, 2013. Published April 9, 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.

Cosmetics and Personal Care:

- "Aqueous hair dyeing compositions comprising poly(lactic acid)", Lago, Juliana Carvalhaes; Fregonesi, Adriana de Andrade; Scanavez de Paula, Carla Maria Sanches; Pedroso de Oliveira, Ana Paula; Warner, John C.; Muollo, Laura; Cookson, Jennifer, PCT Int. Appl. (2017), WO 2017112999 A1 20170706.
- "Aqueous colorant composition and use thereof", Lago, Juliana Carvalhaes; Fregonesi, Adriana; Scanavez de Paula, Carla Maria Sanches; Pedroso de Oliveira, Ana Paula; Warner, John C.; Muollo, Laura; Cookson, Jennifer, U.S. Pat. Appl. Publ. (2017), US 20170189310 A1 20170706.
- "Formulation and Process for Hair Dyeing" Warner, John C.; Muollo, Laura; Stewart, Amie US Patent Appl. 20160184197. Filed September 9, 2014. Published June 30, 2016.
- "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.
- "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.
- "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.
- "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.
- "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.
- "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.

Thermal Imaging:

- "Thermal Recording Media" Chakar, Fadi Selim; Warner, John Charles; Whitfield, Justin Robert; Lugus, Michelle Wanch Li; Banerjee, Deboshri, PCT Int. Appl. WO 2015094630 Published June 25, 2015.
- "Thermal Recording Materials Containing Phosphate Modifier" Chakar, Fadi Selim; Warner, John Charles; Whitfield, Justin Robert; Lugus, Michelle Wanch Li; Banerjee, Deboshri, US Pat. Appl. US 20150165806. Filed December 18, 2013. Published June 18, 2015.
- "Thermal Imaging" Warner, John C. US Pat. Appl. US 20140371064. Filed June 18, 2013. Published December 18, 2014.
- "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.
- "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.

Recycling Technologies:

- "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.
- "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.
- "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.
- "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.

Solar Energy:

- "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.
- "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.

Polymer Photochemistry:

- "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.
- "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.
- "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.
- "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.
- "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.

Electronics:

- "Protective barriers for electronic devices" Warner, John C.; Viola, Michael S. US Patent 8,581,246. Filed September 2, 2011. Published November 12, 2013.
- "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; Vanbenshoten, Helen; Payne, Makonnen PCT Int. Appl. WO 2010091045. Filed Feb 3, 2010. Published August 12, 2010.
- "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, 1992. Published January 30, 2003.

Photo-acid Catalysis:

- "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.
- "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.
- "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.
- "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.

Photographic Sciences:

- "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.
- "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.

Lithographic Processes:

- "Flexible Microreactors" Warner, John C. US Pat. Appl. US 20140369901. Filed June 18, 2013. Published December 18, 2014.
- "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.

Publications:

Books

- "The Missing Elements" Warner, John C., Island Press, 2018.
- "Green Chemistry: Theory and Practice." Anastas, Paul T.; Warner, John C., Oxford University Press, London. 1998.
- "Pyridopyrimidines." Warner, John C. in "Miscellaneous Fused Pyrimidines" T. Delia, Ed. Part IV, vol. 24, John Wiley, New York 1992.
- "Deazafolates" Warner, John C., PhD Dissertation, Princeton University, 1988
- "The Chemistry of N-Nitrosamines" Warner, John C., B.S. Undergraduate Thesis, University of Massachusetts Boston, 1984.

Non-Covalent Derivatization

- "Non-Covalent Derivatives: Cocrystals and Eutectics ", Stoler, Emily; Warner, John C. *Molecules* 2015, 20, 14833-14848
- "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.
- "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.
- "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.
- "Noncovalent Derivatization: Green Chemistry Applications of Crystal Engineering." Cannon, Amy S.; Warner, John C. *Crystal Growth and Design* 2002, 2(4) 255-257.
- "Non-Covalent Derivatives of Hydroquinone: Bis-(N,N-Dialkyl)Bicyclo[2.2.2]octane-1,4-dicarboxamide Complexes." Foxman, Bruce M.; Guarrera, Pai, Ramdas; Tassa, Carlos; Donna J.; Warner, John C. *Crystal Engineering* 1999 2(1), 55.
- "Environmentally Benign Synthesis Using Crystal Engineering: Steric Accommodation in Non-Covalent Derivatives of Hydroquinones." Foxman, Bruce M.; Guarrera, Donna J.; Taylor, Lloyd D.; Warner, John C. *Crystal Engineering*.1998, 1, 109.
- "Pollution Prevention via Molecular Recognition and Self Assembly: Non-Covalent Derivatization." Warner, John C., in "Green Chemistry: Frontiers in Benign Chemical Synthesis and Processes." Anastas, P. and Williamson, T. Eds., Oxford University Press, London. pp 336 - 346. 1998.
- "Non-Covalent Derivatization: Diffusion Control via Molecular Recognition and Self Assembly". Guarrera, D. J.; Kingsley, E.; Taylor, L. D.; Warner, John C. *Proceedings of the IS&T's 50th Annual Conference. The Physics and Chemistry of Imaging Systems*, 537, 1997.
- "Molecular Self-Assembly in the Solid State. The Combined Use of Solid State NMR and Differential Scanning Calorimetry for the Determination of Phase Constitution." Guarrera, D.; Taylor, L. D.; Warner, John. C. *Chemistry of Materials* 1994, 6, 1293.
- "Structural Elucidation of Solid State Phenol-Amide Complexes." Guarrera, Donna. J., Taylor, Lloyd D., Warner, John C., *Proceedings of the 22nd NATAS Conference*, 496 1993.
- "Aromatic-Aromatic Interactions in Molecular Recognition: A Family of Artificial Receptors for Thymine that Shows Both Face-To-Face and Edge-To-Face Orientations." Muehldorf, A. V.; Van Engen, D.; Warner, J. C.; Hamilton, A. D., *J. Am. Chem. Soc.*, 1988, 110, 6561.

Thymine Photopolymers

- "Isolation and Characterization of 1,3-Bis(vinylbenzyl)thymine: Copolymerization with Vinylbenzyl Thymine Ammonium Chloride" Vy, Ngoc Chau H. Vy; Chen, Nina Bin; Martino, Debora M.; Warner, John C.; Lee, Nancy *Journal of Polymers* 2017 Volume 2017, Article ID 6938475, 10 pages <https://doi.org/10.1155/2017/6938475>
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