

John C. Warner

John is a chemistry inventor who works to design and create commercial technologies inspired by nature consistent with the principles of green chemistry. With over 300 patents, he has invented solutions for dozens of multinational corporations. His inventions have also served as the basis for several new companies. Examples include: [Collaborative Medicinal Development](#) (ALS therapy), [Hairprint](#) (hair color restoration), [Collaborative Aggregates](#) (asphalt warm mix rejuvenators), [Ambient Photonics](#) (lowlight indoor photovoltaic devices for IoT and BIPV).

He is one of the cofounders of the field of green chemistry, coauthoring the defining text "[Green Chemistry: Theory and Practice](#)" and articulating the [12 principles of green chemistry](#) with Paul Anastas. John has over 100 publications providing foundational work in the fields of noncovalent derivatization, polymer photochemistry, metal oxide semiconductors and synthetic organic chemistry. John has received prestigious awards as an academic ([Presidential Award for Excellence in Science Mentoring](#) – President G. W. Bush & NSF, 2004) and the [August Wilhelm von Hofmann Medal](#) from the German Chemical Society, 2022), industrial chemist ([Perkin Medal](#) – Society of Chemical Industry, 2014), inventor ([Lemelson Ambassadorship](#) – Lemelson Foundation & AAAS) and for governmental chemicals policy ([Reinventing Government](#) National Performance Review – Vice President A. Gore & EPA, 1997). He received 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 ICI Services 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. He serves as [Distinguished Professor of Green Chemistry](#) at Monash University in Australia and was named an [Honorary Professor](#) at the Technical University of Berlin. He served as the 2020 and 2021 [Global Chair](#) for the Center for Sustainable and Circular Technologies at the University of Bath. In 2017 the German Ministry of Economic Affairs and The Technical University of Berlin announced the naming of "[The John Warner Center for Green Chemistry Start-Ups](#)" in his honor. He serves as strategic advisor for the Science, Engineering and Health Committee of [EPA Victoria](#) in Australia.

John 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](#), with Jim Babcock (a research organization developing green chemistry technologies), and [Beyond Benign](#) with Amy Cannon (a non-profit dedicated to sustainability and green chemistry education). John is constantly giving keynote talks and workshops on Green Chemistry, Innovation, The Circular Economy, and Biomimicry. He continues to advise several international organizations.

June 2020 – September 2022



Zymergen Corporation
Distinguished Research Fellow

September 2020 – Present



University of Bath
Global Sustainability Chair

February 2019 – Present



Monash University
Distinguished Professor of Green Chemistry

November 2019 - Present



AgroParis Tech
Invited Professor

August 2007 - Present



Beyond Benign
Co-Founder

August 2007 - Present



Warner Babcock Institute for Green Chemistry, LLC
Co-Founder

January 1996 – August 2007



University of Massachusetts

Director, Center for Green Chemistry, Lowell [2004-2007]
 Professor (Tenured), Plastics Engineering, Lowell [2004-2007]
 Professor (Tenured), Community Health and Sustainability [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:

“August Wilhelm von Hofmann Medal” German Chemical Society **2022**
 “Jean Dreyfus Lectureship” Southern California Conference on Undergraduate Research. **2019**
 “Doris and Kenneth Kolb Chemistry Lecture” Bradley University **2019**
 “The John Warner Center for Green Chemistry Startups” German Ministry of Economic Affairs and the Technical University of Berlin **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**
 “Massachusetts State Senate Recognition” Senator Bruce Tarr **2014**
 “Special Congressional Recognition” Congressman John Tierney **2014**
 “The Perkin Medal” Chemistry Industry Society **2014**
 “Fellow of the Royal Society of Chemistry” Elected **2014**
 “Grace Van DerVoort Lecturship” Sage Colleges, **2013**.
 “The Marple-Schweitzer Lectureship” Northwestern University, **2013**
 “Jean Dreyfus Boissevain Lectureship” Eastern Michigan University, **2013**
 “Henry A. Lardy Distinguished Lectureship”, South Dakota State University, **2013**
 “Henry Maso Award” Society of Cosmetic Chemistry, **2012**
 “Dow Sustainable Chemistry Lectureship”, Colorado State University, **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**
 “GSA Chemistry Lectureship”, University of Cincinnati, **2010**
 “One of the Most Influential People in the Chemical Industries” ICIS **2008**
 “Award for Outstanding Leadership” Council of Science Society Presidents, **2008**
 “Honorary Member” Alpha Lambda Delta Freshman’s National Honor Society, **2006**
 “Presidential Award for Excellence in Science Mentoring” NSF and President George W. Bush, **2004**
 “Outstanding Environmental Innovation” Environmental Business Council of New England, **2004**.
 “Distinguished Mentoring Service Award” Ronald E. McNair Baccalaureate Achievement Program, **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:

American Chemical Society, Fellow
 Royal Society of Chemistry, Fellow
 Royal Australian Chemistry Institute, Fellow
 Club of Rome, Full Member
 American Institute of Chemical Engineers
 American Association for the Advancement of Science
 American Association of Pharmaceutical Scientists
 Society of Environmental Toxicology and Chemistry
 Society of Cosmetic Chemists
 Sustainable Nanotechnology Organization
 Sigma Xi

Technical University of Berlin Chemical Invention Factory, Advisory Board
 Industrial Agro-Biotechnologies Center, AgroTechParis, CoChair Review Committee.
 The Swedish Foundation for Strategic Environmental Research, Panel for Reduced Chemical Hazards.
 PhD Programme on Sustainable Chemistry Portuguese University of Aveiro, Advisory Committee.
 Princeton Graduate School Leadership Council
 Pearsons Organic Chemistry Advisory Board

Green Chemistry Letters and Reviews, Founder
 Crystal Growth and Design, Editorial Board

United Nations Industrial Development Organization – Global Green Chemistry Initiative Advisory Board
 Victorian, Australia EPA Strategic Advisor
 Founding Stakeholder, Presidential Green Chemistry Challenge
 Ellen MacArthur Foundation – The New Plastics Economy, Advisory Panel.
 Parley for the Oceans, Advisor
 Oceanic Global, Science Advisor.
 MadeSafe, Science Advisor.
 World Economic Forum Circulars, Advisor
 PAESMEM, Advisor

The Dow Chemical Company, Sustainability External Advisory Council
 DexLeChe, Advisor
 Apple Computers, Former Chair, Green Chemistry and Sustainability Advisory Board
 Nike, Sustainability Advisory Board
 Levis, Sustainability Advisor
 Biogen, Sustainability Advisory Panel

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 (Grandchildren: Daisy & Ash)
 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 2023)

Recent US Federal Grants:

“Wearable Personal Hydrazine Monitoring System” NASA Shared Services Center SBIR NNX17CJ36P \$125,000 June 2017-December 2017.

“Low-cost, light-switched, forward-osmosis desalination system.” Department of Energy, Office of Sciences SBIR DE-SC00017075. \$150,000 February 2017 - August 2017.

“Multiplexed Biofiltration of Volatile Organic Compounds” DARPA SBIR/STTR D17PC00142 \$150,000. February 2017 - January 2018.

“Multiplexed Biofiltration of Volatile Organic Compounds. Phase II” DARPA SBIR/STTR 140D6318C0037 \$1,300,000. June 2018 - June 2020.

Patents: (329 Patent Applications in 87 Patent Families)

087. “Core-shell microcapsules comprising polyelectrolytes for personal care compositions”

Whitfield, Justin; Warner, John C.; Kearney, Frederick Richard

Warner Babcock Institute for Green Chemistry – Givaudan

Priority Date 2020-11-25 (US Prov. Pat. No. 63/118,124).

(329) **WO 2022/112204**. Filed 2021-11-25 (PCT/EP/2021/082589). Published 2022-06-02.

(334) **US 63/118,124**. Filed 2020-11-25. Unpublished

086. “Formulations and products to replace single-use plastics and polystyrene with bio-benign materials such as agricultural wastes.”

Kephart, Paul Ray; Warner, John C.; Dorogy, William E.; Ellman, Samuel

Warner Babcock Institute for Green Chemistry - Nutjobs, Inc.

Priority Date: 2019-10-18 (US Prov. Pat. App. No. 62/923,044).

(333) **WO 2021/077088**. Filed 2020-10-19 Published 2021-04-22.

(332) **US 11,046,836**. Filed 2020-10-19 (US 17/074,034). Published 2021-04-22 (US 2021/0115228). Granted 2021-06-29.

084. “Heteroaromatic and heterobicyclic aromatic derivatives for the treatment of ferroptosis-related disorders.”

Warner, John C.; Baldino, Carmen; Muollo, Laura; Lee, John; Walker, Rowan; Siedlecki, James; Proudfoot, John; Johnstone, Shawn; Mehdi, Numa; Rosenfeld, Craig

Warner Babcock Institute for Green Chemistry - Collaborative Medicinal Development

Priority Date: 2019-03-11 (US Prov. Pat. App. No. 62/816,373).

(331) **MX 2021/010888**. Filed 2020-03-10.

(330) **JP 2022/523860**. Filed 2020-03-10. Published 2022-04-26

(329) **KR 1020210137134**. Filed 2020-03-10. Published 2021-11-17.

(328) **IN 2021/37046034**. Filed 2021-10-08. Published 2022-01-14

(327) **IL 286180**. Filed 2021-09-05. Published 2021-10-31

(326) **CN 113631535**. Filed 2020-03-10. Published 2021-09-11

(325) **CA 3133070**. Filed 2020-03-10. Published 2020-09-17.

(324) **BR 112021017831**. Filed 2020-03-10. Published 2021-11-30

(323) **AU 2020/234788**. Filed 2020-03-10. Published 2021-10-28

(322) **EP 3938340**. Filed 2020-03-10. Published 2022-01-19.

(321) **WO 2020/185738**. Filed 2020-03-10. Published 2020-09-17.

(320) **US 2022/0144826**. Filed 2020-03-10 (17/438,158). Published 2019-05-12.

085. “Alternative crosslinking mechanisms for polyurethane-based systems.”

Warner, John C.; Baldino, Carmen; Whitfield, Justin; Kearney, Frederick Richard

Warner Babcock Institute for Green Chemistry - Covestro LLC, USA.

Priority Date: 2019-02-07

(319) **US 2020/0255578**. Filed 2019-02-07 (16/269,606). Published 2020-08-13

083. “Dye sensitized solar cells.”

Chittibabu, Kethinni; Warner, John C.

Warner Babcock Institute for Green Chemistry - Ambient Photonics Incorporated.

Priority Date: 2018-07-10 (US Prov. Pat. App. No. 62/734,511)

(318) **TW 2020/36923**. Filed 2019-09-19 (108134099). 2020-10-21.

(317) **IL 280849**. Filed 2021-02-14. Published 2021-04-29.

- (316) **CA 3106260**. Filed 2019-09-19. Published 2020-03-26.
(315) **JP 2022/501807**. Filed 2019-09-19 (2021/513321). Published 2022-01-06.
(314) **CN 112955992**. Filed 2019-9-19 (2019/80061652.7). Published 2021-06-11.
(313) **KR 2021/058861**. Filed 2019-09-19 (1020/217009577). Published 2021-05-24.
(312) **AU 2021/9343155**. Filed 2019-09-19. Published 2021-01-28.
(311) **EP 3853909**. Filed 2019-09-19 (19/863787). Published 2021-07-28.
(310) **WO 2020/061266**. Filed 2019-09-19 (PCT/US2019/051849). Published 2020-03-26.
(309) **US 2020/0395492**. Filed 2018-09-21 (17/003.298). Published 2020-12-17.

082. "Solar cell dyes for copper redox based dye sensitized solar cells and combinations thereof."

Chittibabu, Kethinni; Warner, John C.; Martino, Debora; Allen, Richard
Warner Babcock Institute for Green Chemistry - Ambient Photonics Incorporated.
Priority Date: 2018-07-10 (US Prov. Pat. App. No. 62/696,010)

- (308) **CA 3106199**. Filed 2019-07-09. Published 2020-01-16.
(307) **IL 280074**. Filed 2021-01-10. Published 2021-03-01.
(306) **JP 2021/532173**. Filed 2019-07-09 (2021/523558). Published 2021-11-25.
(305) **CN 112912073**. Filed 2019-07-09 (2019/80059204.3). Published 2021-06-04.
(304) **KR 2021/0034611**. Filed 2019-07-09 (10/2021/7004090). Published 2021-03-30.
(303) **AU 2019300873**. Filed 2019-07-09. Published 2021-01-28.
(302) **EP 3820465**. Filed 2019-07-09 (19/834489). Published 2021-05-19.
(301) **WO 2020/014195**. Filed 2019-07-09 (PCT/US2019/040955). Published 2020-01-16.
(300) **US 11,286,244**. Filed 2018-07-10 (17/003,248). Published 2020-12-17 (US 2020/0392097). Granted 2022-03-29.

081. "Methods of rare earth metal recovery from electronic waste."

Warner, John C.; Chittibabu, Kethinni; Martino, Debora
Warner Babcock Institute for Green Chemistry
Priority Date: 2018-04-19 (US Prov. Pat. App. No. 62/659,845)

- (299) **WO 2019/204554**. Filed 2019-04-19 (PCT/US2019/028036). Published 2019-10-24.
(298) **US 2021/0032725**. Filed 2018-04-19 (17/073,758). Published 2021-02-04.

080. "Heterobicyclic aromatic derivatives for the treatment of ferroptosis related disorders."

Warner, John C.; Baldino, Carmen; Muollo, Laura; Rosenfeld, Craig
Warner Babcock Institute for Green Chemistry - Collaborative Medicinal Development
Priority Date: 2017-12-01 (US Prov. Pat. App. No. 62/593,607)

- (297) **WO 2019/106434**. Filed 2018-11-30 (PCT/IB20/001518). Published 2019-06-06.
(296) **US 62/593,607**. Filed 2017-01-12. Unpublished.

079. "Products comprising plant-based microfibers."

Warner, John C.; Whitfield, Justin; Allen, Richard M.; Tshudy, Dwight
Warner Babcock Institute for Green Chemistry.
Priority Date: 2017-11-30 (US Prov. Pat. App. No. 62/592,735).

- (295) **WO 2019/108887**. Filed 2018-11-30 (PCT/US2018/063228). 2019-06-06.
(294) **US 2021/0015121**. Filed 2017-11-30 (16/766,818). Published 2021-01-21.

078. "Methods of producing metal oxide films, patterned metal oxide surfaces and filtration of volatile organic compounds."

Warner, John C.
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-06-02 (US Prov. Pat. App. No. 62/514,094).

- (293) **JP 2020522451**. Filed 2018-06-01 (2019/566610). Published 2020-07-30.
(292) **WO 2018/222976**. Filed 2018-06-01 (PCT/US2018/035576). Published 2018-12-06.
(291) **US 2020/0165730**. Filed 2018-06-01 (16/618,563). Published 2020-05-28.

077. "Non-covalent derivatives of histone deacetylase inhibitors and methods of treatment"

Baldino, Carmen M., Muollo, Laura, Warner, John C.
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-06-01 (US Prov. Pat. App. No. 62/516,585).

- (290) **WO 2018/222572**. Filed 2018-05-29 (PCT/US2018/034846). Published 2018-12-06.
(289) **US 62/516,585**. Filed 2017-06-01. Unpublished.

076. "Stilbene derivatives for the treatment of CNS and other disorders."

Warner, John C.
Warner Babcock Institute for Green Chemistry - Ambient Photonics Incorporated
Priority Date: 2017-05-09 (US Prov. Pat. App. No. 62/503,654).

- (288) **EP 3621945**. Filed 2018-05-08 (18/798060). Published 2020-03-18.

(287) **WO 2018/208709**. Filed 2018-05-08 (PCT/US2018/031485). Published 2018-11-15.

(286) **US 11,286,233**. Filed 2018-05-08 (16/611,945). Published 2021-04-22 (2021/0114976). Granted 2022-03-29.

075. "Stilbene and fused stilbene derivatives as solar cell dyes."

Warner, John C.

Warner Babcock Institute for Green Chemistry - Ambient Photonics Incorporated

Priority Date: 2017-05-09 (US Prov. Pat. App. No. 62/503,645).

(285) **EP 3621957**. Filed 2018-05-08 (18/798831). Published 2020-03-18.

(284) **WO 2018/208712**. Filed 2018-05-08 (PCT/US2018/031489). Published 2018-11-15.

(283) **US 2021/0082632**. Filed 2017-05-09 (16/611,963). Published 2021-03-18.

074. "Biodegradable alternative to polyurethane-based foam cushioning."

Warner, John C.; Whitefield, Justin R.; Polley, Jennifer Dawn; Stoler, Emily Jennifer

Warner Babcock Institute for Green Chemistry

Priority Date: 2017-05-03 (US Prov. Pat. App. No. 62/500,826).

(282) **WO 2018/204565**. Filed 2018-05-03 (PCT/US2018/030768). Published 2018-11-08.

(281) **US 62/500,826**. Filed 2017-05-03. Unpublished.

073. "Debondable Adhesives and uses Thereof, Continuation."

Gonzalez De Los Santo, Eduardo Alberto; Chittibabu, Kethinni; Martino, Debora M.; Trakhtenberg, Sofia; Warner, John C.

Warner Babcock Institute for Green Chemistry - Nike, Inc.

Priority Date: 2017-02-23 (US Prov. Pat. App. No. 62/462,843).

(280) **CN 112409948**. Filed 2018-02-22 (2020/11277263.9). Published 2021-02-26.

(279) **EP 37448083**. Filed 2018-02-22 (20/175068). Published 2020-12-02.

(278) **US 2021/0037916**. Filed 2020-10-14 (17/070,342). Published 2021-02-11.

072. "Debondable Adhesives and Uses Thereof."

Gonzalez De Los Santo, Eduardo Alberto; Chittibabu, Kethinni; Martino, Debora M.; Trakhtenberg, Sofia; Warner, John C.

Warner Babcock Institute for Green Chemistry - Nike, Inc.

Priority Date: 2017-02-23 (US Prov. Pat. App. No. 62/462,843).

(277) **VN 1/2019/05079**. Filed 2018-02-22. Published 2019-11-25.

(276) **CN 110337478**. Filed 2018-02-23 (2018/80013802.2). Published 2019-10-15. Granted 2020-11-17.

(275) **EP 3568447**. Filed 2018-02-22 (18/708865). Published 2019-11-28. Granted 2020-07-08.

(274) **WO 2018/156689**. Filed 2018-02-22 (PCT/US2018/019109). Published 2018-08-30.

(273) **US 10,827,799**. Filed 2017-02-17 (15/898,496). Published 2018-08-23 (US 2018/0235316). Granted 2020-11-10.

071. "Tunable adhesive compositions and methods."

Long, Elisha; Warner, John C.; Whitfield, Justin; Dorogy, Bill; Kearney, Frederick Richard

Warner Babcock Institute for Green Chemistry - Caddis Adhesive Company, Inc.

Priority Date: 2016-11-18 (US Prov. Pat. App. Nos. 62/362,099, 62/457,606)

(272) **JP 2020/512438**. Filed 2017-11-20 (2019/547586). Published 2020-04-23.

(271) **CA 3044253**. Filed 2017-11-20. Published 2018-05-24.

(270) **EP 3541886**. Filed 2017-11-20 (17/822074). Published 2019-09-25.

(269) **WO 2018/094357**. Filed 2017-11-20 (PCT/US2017/06219). Published 2018-05-24.

(268) **US 2018/0346778**. Filed 2018-05-31 (15/994,660). Published 2018-12-06.

070. "Crystallization Suppressant Combinations for High Density Clear Brine Fluids."

Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight;

Williams, Joni P.

Warner Babcock Institute for Green Chemistry - Lanxess Solutions US, Inc. (Formerly Chemtura)

Priority Date: 2016-07-14 (US Prov. Pat. App. No. 62/362,099)

(267) **US 2020/0354623**. Filed 2020-07-30 (16/943,900). Published 2020-11-12.

069. "Crystallization suppressant combinations for high density clear brine fluids."

Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight;

Williams, Joni P.

Warner Babcock Institute for Green Chemistry - Lanxess Solutions US, Inc. (Formerly Chemtura)

Priority Date: 2016-07-14 (US Prov. Pat. App. No. 62/362,099)

(266) **SA 520420272**. Filed 2020-08-31.

(265) **AE 6001390/2020**. Filed 2020-08-31.

(264) **MX 2020/010449**. Filed 2020-08-31.

(263) **IL 277050**. Filed 2020-08-31. Published 2020-10-29.

(262) **BR 112020019839**. Filed 2019-04-02. Published 2021-01-05.

(261) **CN 111971365**. Filed 2019-04-02 (2019/80023582.6). Published 2020-11-20.
 (260) **SG 2020/08458**. Filed 2019-04-02. Published 2020-10-29.
 (259) **EP 3775093**. Filed 2019-04-02 (19/780945). Published 2021-02-17.
 (258) **WO 2019/195259**. Filed 2019-04-02 (PCT/US2019/025347). Published 2019-10-10
 (257) **US 10,745,609**. Filed 2018-04-03 (15/944,007). Published 2018-08-09 (US 2018/0223172). Granted 2020-08-18.

068. "High density clear brine fluids."

Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight; Williams, Joni P.

Warner Babcock Institute for Green Chemistry - Lanxess Solutions US, Inc. (Formerly Chemtura)

Priority Date: 2016-07-14 (US Prov. Pat. App. No. 62/362,099)

(256) **EP 3741825**. Filed 2017-07-14 (20/173147). Published 2020-11-25.

(255) **US 11,021,641**. Filed 2019-05-02 (16/401,650). Published 2019-08-22 (US 2019/0256758). Granted 2021-06-01.

067. "High density clear brine fluids."

Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight; Williams, Joni P.

Warner Babcock Institute for Green Chemistry - Lanxess Solutions US, Inc. (Formerly Chemtura)

Priority Date: 2016-07-14 (US Prov. Pat. App. No. 62/362,099)

(254) **IL 264231**. Filed 2019-01-13. Published 2019-02-28.

(253) **MX 2019000555**. Filed 2017-07-14. Published 2019-10-30.

(252) **IN 395519**. Filed 2019-01-02 (IN 2019/17000141) Published 2019-03-01. Granted 2022-04-27.

(251) **DK 3484978**. Filed 2017-07-24 (17/745581). Published and Granted 2020-08-31.

(250) **BR 11/2019/000580**. Filed 2017-07-14. Published 2019-04-24.

(249) **CN 109476982**. Filed 2017-07-14 (2017/80042858.6). Published 2019-03-15. Granted 2021-10-12.

(248) **AU 2017/296043**. Filed 2017-07-14. Published 2018-01-18. Granted 2021-10-28.

(247) **EP 3484978**. Filed 2017-07-14 (17/745581). Published 2019-05-22. Granted 2020-06-10.

(246) **WO 2018/013949**. Filed 2017-07-14 (PCT/US2017/042175). Published 2018-01-18.

(245) **US 2018/0016484**. Filed 2017-07-14 (15/650,458). Published 2018-01-18.

066. "Bisphenol-A free crosslinked polymer compositions."

Warner, John C.; Whitfield, Justin; Kearney, Frederick R.; Gladding, Jeffrey; Hari, Anitha

Warner Babcock Institute for Green Chemistry

Priority Date: 2016-06-27 (US Prov. Pat. App. No. 62/355,074)

(244) **JP 2019520458**. Filed 2017-06-27 (2018/566939). Published 2019-07-18.

(243) **CN 109790248**. Filed 2017-06-27 (2017/80052937.5). Published 2019-05-21.

(242) **KR 2019/0022788**. Filed 2017-06-27 (10/2019/7002627). Published 2019-03-06.

(241) **AU 2017/289153**. Filed 2017-06-27. Published 2018-01-04.

(240) **EP 3475324**. Filed 2017-06-27 (17/821050). Published 2019-05-01.

(239) **WO 2018/005430**. Filed 2017-06-27 (PCT/US2017/039410). Published 2017-06-27.

(238) **US 2020/0181317**. Filed 2017-06-27 (16/313,538). Published 2020-06-11.

065. "Photochromic water harvesting platform."

Warner, John C.; Cheruku, Srinivasa R.; Trakhtenberg, Sofia

Warner Babcock Institute for Green Chemistry.

Priority Date: 2016-06-23 (US Prov. Pat. App. No. 62/353,925).

(237) **JP 2019/527250**. Filed 2017-06-23 (2018/566941). Published 2019-09-26.

(236) **CN 109790451**. Filed 2017-06-23 (2017/80051611). Published 2019-05-21.

(235) **AU 2017/281784**. Filed 2017-06-23. Published 2017-12-28.

(234) **EP 3475387**. Filed 2017-06-23 (17/816260). Published 2019-05-01.

(233) **WO 2017/223397**. Filed 2017-06-23 (PCT/US2017/038925). Published 2017-06-23.

(232) **US 11,352,554**. Filed 2017-06-23 (16/313,299). Published 2019-05-23 (US 2019/0153306). Granted 2022-06-07.

064. "Reversibly Switchable Surfactants and methods of use."

Warner, John C.; Cheruku, Srinivasa

Warner Babcock Institute for Green Chemistry

Priority Date: 2016-06-23 (US Prov. Pat. App. 62/353,805)

(231) **JP 2019/531869**. Filed 2017-06-23 (2018/566975). Published 2019-11-07.

(230) **CN 109996599**. Filed 2017-06-23 (2017/80052067.1). Published 2019-07-09.

(229) **AU 2017/281523**. Filed 2017-06-23. Published 2017-12-28.

(228) **EP 3474975**. Filed 2017-06-23 (17/816273). Published 2019-05-01.

(227) **WO 2017/223413**. Filed 2017-06-23 (PCT/US2017/0389954). Published 2017-12-28.

(226) **US 2019/0152993**. Filed 2017-06-23 (16/303,312). Published 2019-05-23.

063. "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

Warner Babcock Institute for Green Chemistry - Natura Cosmetics

Priority Date: 2015-12-30

(225) **CL 2018/001800**. Filed 2018-06-29. Published 2018-12-21.

(224) **MX 2018/008138**. Filed 2016-12-29. Published 2018-11-09.

(223) **JP 6927998**. Filed 2016-12-29 (2018/553272). Published 2019-03-28 (JP 2019/508483). Granted 2021-09-01.

(222) **BR 11/2018/013359**. Filed 2016-12-29. Published 2018-04-12. Granted 2021-05-04.

(221) **KR 2018/0123010**. Filed 2016-12-29 (10/2018/7021998). Published 2018-11-14.

(220) **AU 2016/379964**. Filed 2016-12-29. Published 2017-07-06.

(219) **AR 107239**. Filed 2016-12-28 (P160104051). Published 2018-04-11.

(218) **EP 3397237**. Filed 2016-12-29 (16/880211). Published 2018-11-07.

(217) **WO 2017/112999**. Filed 2016-12-29 (PCT/BR2016/050361). Published 2017-07-06.

(216) **US 10,500,149**. Filed 2015-12-30 (14/984,930). 2017-07-06 (US 2017/0189310). Granted 2019-12-10.

062. "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.,

Warner Babcock Institute for Green Chemistry.

Priority Date: 2015-11-11. (US Prov. Pat. App. No. 62/253,903)

(215) **IL 259674**. Filed 2018-05-29. Published 2018-07-31. Granted 2021-07-29

(214) **CA 3005212**. Filed 2016-11-10. Published 2017-05-18.

(213) **JP 6908805** Filed 2016-11-10 (2018/524421). Published 2019-01-24 (JP 2019/501875). Granted 2021-07-28.

(212) **CN 108699019**. Filed 2016-11-10 (2016/80078656.2). Published. 2018-10-23. Granted 2022-05-10.

(211) **AU 2016/353004**. Filed 2016-11-10. Published 2018-06-14. Granted 2020-11-05.

(210) **EP 3374354**. Filed 2016-11-10 (16/864979). Published 2018-09-19.

(209) **WO 2017/083488**. Filed 2016-11-10 (PCT/US2016/061281). Published 2017-05-18.

(208) **US 10,590,100**. Filed 2016-11-10 (15/774,638). Published 2018-12-06 (US 2018/0346433). Granted 2020-03-17.

061. "Preparation of dipyrindyl thiosemicarbazones as anticancer agents."

Warner, John C.; Gladding, Jeffery A.; Cheruku, Srinivasa R.,

Warner Babcock Institute for Green Chemistry - Oncochel Therapeutics, LLC.

Priority Date: 2015-09-29 (US Prov. Pat. App. No. 62/234,198).

(207) **WO 2017/058748**. Filed 2016-09-27 (PCT/US 2016/053882). Published 2017-04-06.

(206) **US 62/234,198**. Filed 2015-09-29. Unpublished.

060. "Lignocellulosic composites and methods of making same."

Warner, John C.; Whitfield, Justin R.; Gladding, Jeffery A.; Allen, Richard M.

Warner Babcock Institute for Green Chemistry - Collaborative Aggregates, LLC.

Priority Date: 2015-05-26 (US Prov. Pat App. No. 62/166,267).

(205) **MX 2017/015081**. Filed 2016-05-26. Published 2019-09-09.

(204) **JP 6948707**. Filed 2016-05-26 (2017/560980). Published 2018-06-28 (JP 2018/516784). Granted 2021-10-13.

(203) **IN 2017/370046114**. Filed 2017-12-21. Published 2018-02-09. Granted 2021-05-27

(202) **AU 2016/267104**. Filed 2016-05-26. Published 2016-12-01. Granted 2020-10-29

(201) **CA 2986427**. Filed 2016-05-26. Published 2016-12-01.

(200) **EP 3302969**. Filed 2016-05-26 (16/800690). Published 2018-04-11. Granted 2021-01-27

(199) **WO 2016/191521**. Filed 2016-05-26 (PCT/US2016/034231). Published 2016-12-01.

(198) **US 2018/0147824**. Filed 2016-05-26 (15/576,988). Published 2018-05-31.

059. "Functionalized fluorinated polyhedral oligomeric silsesquioxane (F-POSS) monomer compositions and uses thereof."

Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow

NBD Nanotechnologies, Inc. (Priority Date: 2015-03-09)

(197) **JP 2018/510862**. Filed 2016-03-09 (2017/547113). Published 2018-04-19.

(196) **EP 3268412** Filed 2016-03-09 (16/762413). Published 2018-01-17.

(195) **WO 2016/145060**. Filed 2016-03-09 (PCT/US2016/021532). Published 2016-09-15.

(194) **US 10,174,059**. Filed 2016-03-09 (15/065,289). Published 2016-09-15 (US 2016/0264599). Granted 2019-01-01.

058. "Processes for preparing functionalized f-poss monomers."

Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow

NBD Nanotechnologies, Inc. (Priority Date: 2015-02-09).

(193) **HK 1248707**. Filed 2018-06-25 (18108110.8). Published 2018-10-19.

(192) **JP 9839480**. Filed 2016-02-19 (2017/543751). Published 2018-05-17 (JP 2018/512382). Granted 2021-02-17

(191) **EP 3259278**. Filed 2016-02-19 (16/753106). Published 2017-12-27. Granted 2021-04-07

(190) **WO 2016/134207**. Filed 2016-02-19 (PCT/US2016/018584). Published 2016-08-25.

(189) **US 9,630,981**. Filed 2016-02-19 (15/048,464). Published 2016-11-10 (US 2016/0326191). Granted 2017-04-25.

057. "Compositions and methods for compatibilizing fluorinated materials in nonfluorinated solvent systems."

Warner, John Charles; Loebelenz, Jean R.; Kariuki, Peter N.; Bwambok, David K.,

Warner Babcock Institute for Green Chemistry

Priority Date: 2014-11-14 (US Prov. Pat. App. 62/079,719).

(188) **US 9,932,424**. Filed 2015-11-16 (14/942,747). Published 2016-10-20 (US 2016/0304641). Granted 2018-04-03.

056. "Synthetic Blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials. Continuation 2."

Warner, John Charles

Warner Babcock Institute for Green Chemistry - NBD Nanotechnologies, Inc.

Priority Date: 2014-10-07 (US Prov. App. No. 62/060,622).

(187) **US 10,584,137**. Filed 2019-02-18 (16/278,366). Published 2019-06-13 (US 2019/0177344). Granted 2020-03-10.

055. "Synthetic Blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials. Continuation."

Warner, John Charles

Warner Babcock Institute for Green Chemistry - NBD Nanotechnologies, Inc.

Priority Date: 2014-10-07 (US Prov. App. No. 62/060,622).

(186) **US 10,208,070**. Filed 2016-08-08 (15/230,697). Published 2017-06-29 (US 2017/0183364). Granted 2019-02-18.

054. "Synthetic blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials."

Warner, John Charles

Warner Babcock Institute for Green Chemistry - NBD Nanotechnologies, Inc.

Priority Date: 2014-10-07 (US Prov. App. No. 62/060,622).

(185) **JP 2017/538791**. Filed 2015-10-07. Published 2017-12-28.

(184) **EP 3204450**. Filed 2015-10-07 (15/849377). Published 2017-08-16

(183) **WO 2016/057599**. Filed 2015-10-07 (PCT/US2015/054367). Published 2016-04-14.

(182) **US 9,409,933**. Filed 2015-10-07 (14/876,911). Published 2016-04-07 (US 2016/0096853). Granted 2016-08-09.

053. "Functionalized f-poss monomer compositions and uses thereof. Continuation"

Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow; Catchings, Perry L.

Warner Babcock Institute for Green Chemistry - NBD Nanotechnologies, Inc.

Priority Date: 2017-09-14 (US Prov. Pat. Ap. No. 62/060,622)

(181) **US 2020/0040016**. Filed 2019-10-14 (16/601,022). Published 2020-02-06.

052. "Functionalized F-poss monomer compositions and uses thereof."

Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow; Catchings, Perry L.,

Warner Babcock Institute for Green Chemistry - NBD Nanotechnologies, Inc.

Priority Date: 2017-09-14 (US Prov. Pat. Ap. No. 62/060,622)

(180) **JP 2019/052148**. Filed 2018-09-14. Published 2019-04-04.

(179) **CN 109503652**. Filed 2018-09-14. Published 2019-03-22.

(178) **EP 3456723**. Filed 2018-09-14 (18/194643). Published 2019-03-20.

(177) **US 10,442,823**. Filed 2017-09-14 (15/705,089). Published 2018-04-05 (US 2018/0094006). Granted 2019-10-15.

051. "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.

Warner Babcock Institute for Green Chemistry – Terravia (Formerly Solazyme, Inc.)

Priority Date: 2014-06-20. (US Prov. Pat. App. Nos. 62/015,154, 62/064,381, 62/073,728, 62/094,734)

(176) **WO 2015/196134**. Filed 2015-06-19 (PCT/US2015/036781). Published 2015-12-23.

(175) **US 62/015,154**. Filed 2014-06-20. Unpublished.

050. "Method for preparation of N-acetyl-L-cysteinamide from N-acetyl-L-cysteine. Continuation."

Warner, John C.; Cheruku, Srinavasa; Thota, Sambaiah; Lee, John W.

Warner Babcock Institute for Green Chemistry - Naucity Pharmaceuticals Inc.

Priority Date: 2014-03-28 (US Prov. Pat. App. No. 61/972,133).

(174) **US 9,889,103**. Filed 2017-09-06 (15/696,912). Published 2017-12-28 (US 2017/0368009). Granted 2018-02-13.

049. "Method for the preparation of N-acetyl-L-cysteinamide from N-acetyl-L-cysteine."

Warner, John C.; Cheruku, Srinavasa; Thota, Sambaiah; Lee, John W.

Warner Babcock Institute for Green Chemistry - Naucity Pharmaceuticals Inc.

Priority Date: 2014-03-28 (US Prov. Pat. App. No. 61/972,133).

(173) **EP 3122342**. Filed 2015-03-27 (15/770142). Published 2017-02-01. Granted 2020-09-23.

(172) **WO 2015/148880**. Filed 2015-03-27 (PCT/US2015/022910). Published 2015-10-01.

(171) **US 9,763,902**. Filed 2015-03-27 (15/300,092). Published 2017-06-29 (US 2017/0183302). Granted 2017-09-19.

048. "Thermal recording materials containing phosphate modifier."

Chaker, Fadi; Warner, John Charles; Whitfield, Justin Robert; Li Lugus, Michelle Wanchi; Banerjee, Deboshri.

Warner Babcock Institute for Green Chemistry - Appvion, Inc. (Formerly Appleton)

Priority Date: 2013-12-18.

(170) **PL 3083262**. Filed 2014-12-02 (14/871437). Published 2020-01-31.

(169) **ES 2745537**. Filed 2014-12-02. Published 2020-03-02. Granted 2020-03-02.

(168) **CN 105358328**. Filed 2014-12-02 (2014/80037538.8). Published 2016-02-24. Granted 2018-09-07.

(167) **CA 2915013**. Filed 2014-12-02. Published 2015-06-25. Granted 2022-01-18.

(165) **EP 3083262**. Filed 2014-12-02 (14/871437). Published 2016-10-26. Granted 2019-06-26.

(165) **WO 2015/094630**. Filed 2014-12-02 (PCT/US2014/068003). Published 2015-06-25.

(164) **US 9,126,451**. Filed 2013-12-18 (14/132,984). Published 2015-09-08 (US 2015/0165806). Granted 2015-09-08.

047. "Novel asphalt binder additive compositions and methods of use."

Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R.

Warner Babcock Institute for Green Chemistry - Collaborative Aggregates, LLC.

Priority Date: 2013-11-11 (US Prov. Pat. App. No. 61/902,706)

(163) **US 2019/0152850**. Filed 2019-01-01 (16/255,985). Published 2019-05-23.

046. "Novel asphalt binder additive compositions and methods of use."

Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R.

Warner Babcock Institute for Green Chemistry - Collaborative Aggregates, LLC.

Priority Date: 2013-11-11 (US Prov. Pat. App. No. 61/902,706)

(162) **AU 2018/256540**. Filed 2018-10-31. Published 2018-11-22. Granted 2020-02-13.

(161) **US 2018/0257985**. Filed 2018-05-14 (15/978,515). Published 2018-09-13.

045. "Asphalt binder additive compositions and related methods."

Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R.

Warner Babcock Institute for Green Chemistry - Collaborative Aggregates, LLC.

Priority Date: 2013-11-11 (US Prov. Pat. App. No. 61/902,706)

(160) **ES 2780908**. Filed 2014-11-10 (14815959). Published 2020-08-27. Granted 2020-08-27

(159) **JP 6474085**. Filed 2014-11-10. Published 2016-12-01. Granted 2019-02-27.

(158) **AU 2014/346479**. Filed 2014-11-10. Published 2016-12-08. Granted 2018-08-02.

(157) **EP 3107958**. Filed 2014-11-10 (14/815959.3) Published 2016-12-28. Granted 2019-12-25.

(156) **WO 2015/070180**. Filed 2014-11-10 (PCT/US2014/064882). Published 2015-05-14.

(155) **US 9,994,485**. Filed 2014-11-10 (14/763,936). Published 2016-09-15 (US 2016/0264464). Granted 2018-06-12.

044. "Metal complexes and methods of treatment."

Warner, John C.; Cheruku, Srinivasa R.; Hari, Anitha; Norman, James J.

Warner Babcock Institute for Green Chemistry - Collaborative Medicinal Development.

Priority Date: 2013-11-11 (US Pat. App. Nos. 61/902,682 & 61/932,348).

(154) **IN 362647**. Filed 2016-06-10 (2016/37019993). Published 2016-08-26. Granted 2021-03-23.

(153) **IL 245593**. Filed 2016-05-10. Published 2016-06-30. Granted 2020-01-30.

(152) **ES 2778038**. Filed 2014-11-10 (14803023). Published 2020-08-07. Granted 2020-08-07.

(151) **JP 6619348**. Filed 2014-11-10 (2016/553260). Published 2016-12-28. Granted 2019-12-11.

(150) **AU 2014/346476**. Filed 2014-11-10. Published 2016-06-23. Granted 2019-01-24.

(149) **CN 105899519**. Filed 2014-11-10 (11/2014/000072886). Published 2016-08-24. Granted 2021-11-09

(148) **CA 2930290**. Filed 2014-11-10. Published 2015-05-14.

(147) **EP 3068762**. Filed 2014-11-10 (14/803023). Published 2016-09-21. Granted 2019-12-25.

(146) **WO 2015/070177**. Filed 2014-11-10 (PCT/US2014/064879). Published 2015-05-14.

(145) **US 11,266,686**. Filed 2014-11-10 (15/035,911). Published 2016-09-22 (US 2016/0271175). Granted 2022-03-08.

043. "Formulation and processes for hair coloring, Continuation."

Warner, John C.; Muollo, Laura; Stewart, Amie

Warner Babcock Institute for Green Chemistry – Hairprint

Priority Date: 2013-10-14

(144) **US 9,522,102**. Filed 2014-09-09 (14/481,842). Published 2016-06-30 (US 2016/0184197). Granted 2016-12-20.

042. "Formulation and processes for hair coloring."

Warner, John C.; Muollo, Laura; Stewart, Amie
Warner Babcock Institute for Green Chemistry – Hairprint
Priority Date: 2013-10-14.

- (143) **ZA 2016/03186**. Filed 2016-05-11. Published 2017-08-30.
 (142) **NZ 719935**. Filed 2016-05-11. Published 2019-01-24.
 (141) **IN 2016/37015550**. Filed 2016-04-05. Published 2016-08-26.
 (140) **IL 245082**. Filed 2016-04-13. Published and Granted 2016-06-30.
 (139) **BR 10/2014/025546**. Filed 2014-10-14 (10/2014/025546). Published 2015-10-27.
 (138) **JP 6449269**. Filed 2014-01-25 (2016/524120). Published 2016-10-27. Granted 2019-01-09.
 (137) **AU 2014/337395**. Filed 2014-01-25. Published 2016-05-26. Granted 2019-12-10.
 (136) **EP 3057561**. Filed 2014-01-25 (14/853772). Published 2016-08-24.
 (135) **CN 105792797**. Filed 2014-01-25 (2014/80065814.1). Published 2016-07-20. Granted 2020-10-16.
 (134) **KR 2159280**. Filed 2014-01-25 (10/2016/7012746). Published 2016-06-15. Granted 2020-09-23.
 (133) **WO 2015/057254**. Filed 2014-01-25 (PCT/US2014/013076). Published 2015-04-23.
 (132) **US 8,828,100**. Filed 2013-10-14 (14/053,524). Published and Granted 2014-09-09.

041. “Bromine-free fire retardant (FR) agents capable of using a cyclization mechanism.”

Warner, John; Tang, Pui-In; Stewart, Amie; Kelly, Colleen
Warner Babcock Institute for Green Chemistry - Empire Technology Development
Priority Date: 2013-10-02.

- (131) **CN 105592893**. Filed 2013-10-02 (CN 2013/80079988.9). Published 2016-05-18.
 (130) **WO 2015/050542**. Filed 2013-10-02 (PCT/US2013/063113). Published 2015-04-09.
 (129) **US 2016/0312121**. Filed 2013-10-02. Published 2015-04-09

040. “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
Warner Babcock Institute for Green Chemistry - Empire Technology Development
Priority Date: 2013-08-22.

- (128) **WO 2015/026353**. Filed 2013-08-22 (PCT/US2013/056231). Published 2015-02-26.
 (127) **US 9,856,381**. Filed 2013-08-22 (US 2016/0200919). Published 2016-07-14. Granted 2018-01-02.

039. “Preparation of Rilyazine derivatives useful in treatment of cancer.”

Warner, John C.; Gladding, Jeffery A.; Gero, Thomas W.; Cheruku, Srinivasa R.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2013-09-05. (US Prov. App. No. 61/874,039).

- (126) **AU 2014/315422**. Filed 2014/08/29. Published 2015/03/12.
 (125) **EP 3041840**. Filed 2014-08-29 (14/766602.8). Published 2016-07-13. Granted 2018-02-28.
 (124) **WO 2015/034785**. Filed 2014-08-29 (PCT/US2014/053529). Published 2015-03-12.
 (123) **US 9,394,299**. Filed 2013-08-29 (14/473,472). Published 2015-03-05 (US 2015/065510). Granted 2016-07-19.

038. “Flexible microreactors.”

Warner, John C.
Warner Babcock Institute for Green Chemistry.
Priority Date: 2013-06-18

- (122) **US 2014/0369901**. Filed 2013-06-18 (13/921099). Published 2014-12-18.

037. “Thermal imaging.”

Warner, John C.
Warner Babcock Institute for Green Chemistry.
Priority Date: 2013-06-18

- (121) **US 10,245,867**. Filed 2013-06-18 (10/245867). Published 2014-12-18 (US 2014/0371064). Granted 2019-04-02.

036. “Dihydro-6-azaphenalene 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
Warner Babcock Institute for Green Chemistry.
Priority Date: 2012-09-28. (US Prov. App. No. 61/707,444).

- (120) **BR 112015007095**. Filed 2013-09-27. Published 2017-07-04.
 (119) **IN 1121/KOLNP/2015**. Filed 2015-04-22. Published 2016-01-08. Granted 2021-02-26.
 (118) **JP 6345674**. Filed 2013-09-27 (2015/534773). Published 2015-11-02 (2015/531379). Granted 2018-06-20.
 (117) **CN 10499485**. Filed 2013-09-27 (2013/80062135.4). Published 2015-10-21. Granted 2018-11-30.
 (116) **KR 2015/0060775**. Filed 2013-09-27 (10/2015/7009764). Published 2015-06-03.
 (115) **IL 237912**. Filed 2015-03-23. Published 2015-05-31. Granted 2019-08-29.

- (114) **AU 2013/323198**. Filed 2013-09-27. Granted 2018-03-29. Published 2015-04-09.
 (113) **CA 2886749**. Filed 2013-09-27. Published 2014-04-03.
 (112) **EP 2900239**. Filed 2013-09-27(13/842204.3). Published 2015-08-05. Granted 2019-03-20.
 (111) **WO 2014/052906**. Filed 2013-09-27 (PCT/US2013/062429). Published 2014-04-03.
 (110) **US 10,047,089**. Filed 2013-09-27 (14/040,393). Published 2014-04-03 (US 2014/0094487). Granted 2018-08-14.

035. "Electronic Device and corrosion resistant electrode stack therein."

Plavisch, Lauren; Ricci, Melissa; Warner, John C.
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2012-04-10.

(109) **US 2013/0263921**. Filed 2012-04-10 (13/443,559). Published 2013-10-10

034. "Solar cells with a colorant sensitized semiconductor layer prepared from a presensitized semiconductor Composition."

Warner, John C.; Viola, Michael S.; Barykina, Olga; Dua, Vineet
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2012-01-17.

(108) **US 2013/0180587**. Filed 2012-01-17 (13/351,626). Published 2013-07-18.

033. "Dye formulation for fabricating dye sensitized electronic devices."

Warner, John C.; Viola, Michael S.
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2011-09-23.

(107) **US 2013/0074935**. Filed 2011-09-23 (13/224,524). Published 2013-03-28.

032. "Protective barriers for electronic devices."

Warner, John C.; Viola, Michael S.
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2011-09-02.

(106) **US 8,581,246**. Filed 2011-09-02 (13/225,145). Published 2013-03-07. Granted 2013-11-12.

031. "Formulation and method for hair dyeing."

Warner, John C.; Viola, Michael S.
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2011-09-02.

(105) **US 8,366,791**. Filed 2011-09-02 (13/224,674). Published 2013-02-05 (US 2013/0056723). Granted 2013-02-05.

030. "Method for the recovery of lithium cobalt oxide from lithium ion batteries."

Poe, Sarah L.; Paradise, Chris L.; Muollo, Laura R.; Pal, Reshma; Warner, John C.; Korzenski, Michael B.,
 Warner Babcock Institute for Green Chemistry.
 Priority Date: 2011-06-21 (US Prov. App. No. 61/499,498).

(104) **JP 2018/095968**. Filed 2018-01-09 (2018/001167). Published 2018-06-21.

(103) **BR 11/2013/032436**. Filed 2012-06-19. Published 2019-09-24.

(102) **TW 1593157**. Filed 2012-06-20 (101122026). Published 2017-07-21 (TW 2013/06358). Granted 2017-07-21.

(101) **SG 10201605021**. Filed 2012-06-19. Published 2016-08-30.

(100) **MY 2013/702463**. Filed 2012-06-19. Published 2014-12-21.

(099) **JP 6453077**. Filed 2012-06-19 (2014/517083). Published 2014-10-09 (JP 2014/526953). Granted 2019-01-16.

(098) **IN 271/CHENP/2014**. Filed 2014-01-13. Published 2014-09-26.

(097) **KR 10/1965465**. Filed 2012-06-19 (10/2014/7001306). Pub. 2014-04-01 (10/2014/0039302). Granted 2019-04-03.

(096) **CN 103620861**. Filed 2012-06-19 (2012/80030908.6). Published 2014-03-05. Granted 2017-02-15.

(095) **AP 2014/07373**. Filed. 2012-06-19. Published 2014-01-31

(094) **EP 2724413**. Filed 2012-06-19 (12/802703). Published 2014-04-30. Granted 2018-12-05.

(093) **WO 2012/177620**. Filed 2012-06-18 (PCT/US2012/043119). Published 2012-12-27.

(092) **US 9,972,830**. Filed 2012-06-19 (14/127,714). Published 2014-16-10 (US 2014/0306162). Granted 2018-05-15.

029. "Sustainable process for reclaiming precious metals and base metals from electronic waste. Continuation"

Korzenski, Michael B.; Jiang, Ping; Norman, James; Warner, John; Ingalls, Laura; Gnanamgari, Dinakar; Strickler, Fred;
 Mendum, Ted,

Warner Babcock Institute for Green Chemistry - Advance Technology Materials Inc, and Entegris, Inc.

Priority Date: 2010-08-20 (US Prov. App. No. 61/375,273).

(091) **JP 2017/110301**. Filed 2016-12-22 (2016/248776). Published 2017-06-22.

(090) **TW 2017/16588**. Filed 2011-08-19 (105126569). Published 2017-05-16.

(088) **CN 105274338**. Filed 2011-08-19 (2015/10599616.X). Published 2016-01-27.

(089) **US 2016/0122846**. Filed 2016-01-12 (14/993,614). Published 2016-05-05.

028. "Sustainable process for reclaiming precious metals and base metals from electronic waste."
Korzenski, Michael B.; Jiang, Ping; Norman, James; Warner, John; Ingalls, Laura; Gnanamgari, Dinakar; Strickler, Fred; Mendum, Ted.

Warner Babcock Institute for Green Chemistry - Advance Technology Materials Inc, and Entegris, Inc.

Priority Date: 2010-08-20 (US Prov. App. No. 61/375,273).

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027. "Systems and Methods for Preparing Components of Photovoltaic Cells."

Warner, John C.; Van Benschoten, Helen; Cannon, Amy

Warner Babcock Institute for Green Chemistry - Onesun, Inc.

Priority Date: 2010-02-18 (US Prov. App. No. 61/305,899)

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026. "Semiconductors compositions for dye-sensitized solar cells."

Warner, John C.; Van Benschoten, Helen; Cannon, Amy

Warner Babcock Institute for Green Chemistry - Onesun, Inc.

Priority Date: 2010-02-18 (US Prov. App. No. 61/305,899)

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025. "Additives for solar cell semiconductors."

Warner, John C.

Warner Babcock Institute for Green Chemistry - Onesun, Inc.

Priority Date: 2010-02-18 (US Prov. App. No. 61/305,861)

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024. "Coloring composition containing L-dopa and L-arginine and forming a non-covalent derivatization complex."

Warner, John C.; Stoler, Emily J.,

John Masters Organic Hair Care Inc.

Priority Date: 2009-11-13 (US Prov. Patt. App. Nos. 61/261,287 and 61/261,290).

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023. "Coloring composition containing an aromatic compound and tyrosinase."

Warner, John C.; Stoler, Emily J.,

John Masters Organic Hair Care Inc.

Priority Date: 2009-11-13 (US Prov. Patt. App. Nos. 61/261,287 and 61/261,290).

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022. "Coloring Composition Containing an Aromatic Compound and Forming A Non-Covalent Derivatization Complex."

Warner, John C.; Stoler, Emily J.,

John Masters Organic Hair Care Inc.

Priority Date: 2009-11-13 (US Prov. Patt. App. Nos. 61/261,287 and 61/261,290).

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021. "Coloring composition containing an aromatic compound and an Initiator."

Warner, John C.; Stoler, Emily J.,

John Masters Organic Hair Care Inc.

Priority Date: 2009-11-13 (US Prov. Patt. App. Nos. 61/261,287 and 61/261,290).

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(064) **EP 2501374**. Filed 2011-11-15 (10/830852). Published 2012-09-26.

(063) **WO 2011/060354**. Filed 2010-11-15 (PCT/US2010/056695). Published 2011-05-19.

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020. "Non-fluoride containing composition for removal of polymers and other organic material from a surface."

Korzenski, Michael B.; Jiang, Ping; Warner, John; Mendum, Ted; Lugus, Michelle; Whitfield, Justin; Van benschoten, Helen; Payne, Makonnen

Warner Babcock Institute for Green Chemistry - Advanced Technology Materials Inc.

Priority Date: 2009-02-05. (US Prov. Pat. App. No. 61/150,216).

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(059) **US 61/150,216**. Filed 2009-02-05. Unpublished

019. "Photo-induced copolymer functionalized substrates."

Warner, John C.; Cannon, Amy; Dye, Kevin

University of Massachusetts.

Priority Date: 2006-05-23. (US Prov. App. No. US 60/802,851).

(058) **WO 2007/139810**. Filed 2006-05-23 (PCT/US2007/12255). Published 2007-12-06.

(057) **US 60/802,851**. Filed 2006-05-23. Unpublished.

018. "Photoreactive polymers and devices for use in hair treatments."

Warner, John C.; Cannon, Amy S.; Raudys, Jennifer; Undurti, Arundhati.

University of Massachusetts.

Priority Date: 2002-12-20. (US Prov. App. No. 60/435,959).

(056) **JP 2006/514037**. Filed 2003-12-22 (2006/514037). Published 2006-04-27.

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017. "Biodegradable Polymers."

Warner, John C.; Morelli, Alessandra; Ku, Man Ching

University of Massachusetts.

Priority Date: 2001-11-16. (US Prov. App. No. 60/333,816).

(050) **US 2005/0266546**. Filed 2005-06-28 (11/167,970). Published 2005-12-01.

016. "Solubilized cross-linked polymers with photolyase."

Warner, John C.; Morelli, Alessandra; Ku, Man Ching

University of Massachusetts.

Priority Date: 2001-11-16. (US Prov. App. No. 60/333,816).

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015. "Metal oxide films."

Warner, John C.; Morelli, Alessandra.

University of Massachusetts.

Priority Date: 2001-07-18. (US Prov. App. No. 60/306,213).

(048) **AU 2002/320603**. Filed 2002-07-17. Published 2003-01-16.

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014. "Thermographic recording."

Dombrowski, Edward J.; Garrera, Donna J.; Jones, Robert L.; Mischke, Mark R.; Warner, John C.; Yang, Jiyue, Polaroid Corporation.

Priority Date: 1997-04-22.

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013. "Thermographic recording film."

Dombrowski, Edward J.; Jones, Robert L.; Warner, John C.; Yang, Jiyue, Polaroid Corporation.

Priority Date: 1997-04-22.

(044) **US 5,750,463**. Filed 1997-04-22 (08/837,701). Published and Granted 1998-05-12.

012. "Photograph system."

Garrera, Donna J.; Mattucci, Neil C.; Mehta, Avinash C.; Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1996-02-09.

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011. "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.,

Polaroid Corporation - PGI Graphics Imaging

Priority Date: 1995-04-28.

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010. "Thermally-Processable Image Recording Materials Including Substituted Purine Compounds."

Ford, Maureen F.; Guarrera, Donna J.; Mischke, Mark R.; Pai, Ramdas P.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-06-30.

(031) **US 5,411,929**. Filed 1994-06-30 (08/269,925). Published and Granted 1995-05-02.

009. "Imaging medium and process."

Fehervari, Agota. F.; Gaudiana, R. A.; Kolb, Eric S.; Mehta, Parag G.; Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-05-13.

(030) **US 5,424,268**. Filed 1994-05-13 (08/242,726). Published and Granted 1995-06-13.

008. "Copolymers Having Pendant Functional Thymine Groups."

Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-05-13.

(029) **US 5,708,106**. Filed 1996-05-03 (08/642,805). Published and Granted 1998-01-13.

007. "Method of Imaging Using a Polymeric Photoresist Having Pendant Vinylbenzyl Thymine Groups."

Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-05-13.

(028) **US 5,616,451**. Filed 1995-05-24 (08/449,017). Published and Granted 1997-04-01.

006. "Copolymeric Mordants and Photographic Products and Processes Containing Same."

Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-05-13.

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005. "Vinylbenzyl thymine monomers."

Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.,

Polaroid Corporation.

Priority Date: 1994-05-13.

(026) **DE 69504652**. Filed 1995-05-10. Published and Granted 1998-10-15.

(025) **JP 10500169**. Filed 1995-05-10 (1995/529697). Published 1998-01-06.

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(023) **EP 0759193**. Filed 1995-05-10 (95/918966). Published 1997-02-26. Granted 1998-09-09.

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004. "Process for Fixing an Image, and Medium for Use Therein. Continuation"

Marshall, John L.; Shon Baker, Rita S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-04-25.

(020) **US 5,741,630**. Filed 1995-04-28 (08/430421). Published and Granted 1996-12-10.

003. "Process for Fixing an Image, and Medium for use Therein."

Ehret, Anne; Marshall, John L.; Baker, Rita S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C.

Polaroid Corporation.

Priority Date: 1994-04-25.

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002. "Process and Composition for use in Photographic Materials Containing Hydroquinones. Continuation."

Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1991-07-19.

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Taylor, Lloyd D.; Warner, John C.

Polaroid Corporation.

Priority Date: 1991-07-19.

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(001) **US 5,177,262**. Filed 1991-07-19 (07/732,836) Published and Granted 1993-01-05.

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